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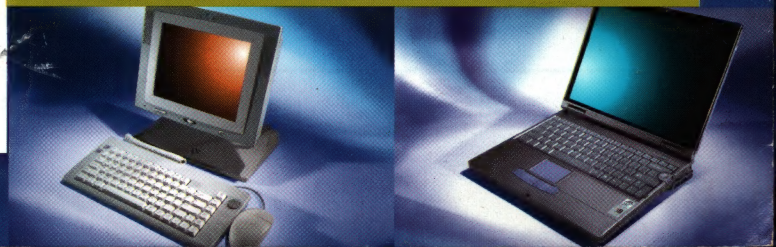

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June 2000

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- Intel® 3D AGP Graphics, 40X Max CD-ROM
- MS® Windows® 98 & MS® Works Suite 2000 and Norton AntiVirus™ 2000
- 3-Yr Ltd. Warranty,[2] 1-Yr NBD On-site Service[4]
- FREE Upgrade to 17" (16.0" vis) E770 Monitor

$699 E•VALUE CODE 05800-590506

BUSINESS LEASE: $23/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS[11]

- FREE Monitor Upgrade Valid Through 5/31/00

DELL™ DIMENSION™ L600r

Affordable Desktop

- Intel® Pentium® III Processor at 600EB MHz
- Micro-Tower Model
- 32MB SDRAM (up to 256MB)
- 4.3GB[5] Ultra ATA HD (up to 20GB[5])
- 15" (13.8" vis) E550 Monitor
- Intel® 3D AGP Graphics, 40X Max CD-ROM
- MS® Windows® 98 & MS® Works Suite 2000 and Norton AntiVirus™ 2000
- 3-Yr Ltd. Warranty,[2] 1-Yr NBD On-site Service[4]
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BUSINESS LEASE: $27/MO., 36 MOS.
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- 32MB SDRAM, 4.8GB[5] Ultra ATA HD
- Modular 24X Max Variable CD-ROM
- 2X AGP 8MB ATI RAGE Mobility™-P 3D Video
- *NEW* Microsoft® Works Suite 2000
- Microsoft® Windows® 98, Second Edition
- 1-Yr Next-Business-Day On-site Service[4]

$1499 E•VALUE CODE 05800-890514

BUSINESS LEASE: $50/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS[11]

- 3-Yr NBD On-site Service[4], add $149

DELL™ INSPIRON™ 5000

NEW Performance and Mobility Notebook

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- 15" XGA Active Matrix Display
- 32MB SDRAM, 6.0GB[5] Ultra ATA HD
- Modular 24X Max Variable CD-ROM/Floppy Drive
- 2X AGP 4MB ATI RAGE Mobility™-P 3D Video
- 52WHr Lithium Ion Battery
- Microsoft® Office 2000 Small Business
- Microsoft® Windows® 98, Second Edition
- 3-Yr Next-Business-Day On-site Service[4]

$1999 E•VALUE CODE 05800-890519

BUSINESS LEASE: $67/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS[11]

- Intel® Pentium® III Processor at 650MHz, add $400

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- Intel® Celeron™ Processor at 450MHz
- 12.1" SVGA Active Matrix Display
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- 1-Yr Next-Business-Day On-site Service[4]

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- Dell's OpenManage™ Server Management Solutions
- 3-Yr NBD On-site Service[4]; 7x24 Phone Support

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BUSINESS LEASE: $54/MO., 36 MOS.
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- Second Intel® Pentium® III Processor at 550MHz, add $599

DELL™ POWEREDGE™ 2400

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- Dual Processor Capable
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- Integrated NIC/SCSI Controllers; 40X Max CD-ROM
- Dell's OpenManage™ Server Management Solutions
- 3-Yr NBD On-site Service[4]; 7x24 Phone Support

$2999 E•VALUE CODE 05800-290529

BUSINESS LEASE: $100/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS[11]

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- MS® Windows NT® Workstation 4.0
- 3-Yr Next-Business-Day On-site Service[4]
- 7x24 Dedicated Workstation Phone Tech Support

$2869 E•VALUE CODE 05800-490528

BUSINESS LEASE: $96/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS[11]

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Affordable Desktop Solution

- Intel® Pentium® III Processor at 600EB MHz
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- MS® Works Suite 2000
- MS® Windows® 98, SE
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- 20GB[5] Ultra ATA Hard Drive
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- 16MB ATI RAGE 128 Pro
- 48X Max CD-ROM Drive
- Turtle Beach Montego II A3D™ 320V Sound Card
- harman/kardon Speakers
- V.90 56K Capable[6] PCI Telephony Modem for Windows®
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

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Cutting Edge Technology

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- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

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E•VALUE CODE: 05800-500525

DELL™ HOME NOTEBOOKS:

DELL™ INSPIRON™ 3800

Design and Affordability

- Intel® Celeron™ Processor at 450MHz
- 12.1" SVGA Active Matrix Display
- 32MB SDRAM
- 4.8GB[5] Ultra ATA Hard Drive
- Modular 24X Max CD-ROM
- 2X AGP 8MB ATI RAGE Mobility™-M1 3D Video
- 3D Positional Sound with Wavetable
- 53WHr Lithium Ion Battery with ExpressCharge™ Technology
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 1-Yr Limited Warranty[2]
- 1-Yr Next-Business-Day On-site Service[4]

$1499 As low as $41/Mo., for 48 Mos.[17]
E•VALUE CODE: 05800-800514

DELL™ INSPIRON™ 5000

Performance and Mobility

- Intel® Pentium® III Processor at 500MHz
- 14.1" XGA Active Matrix Display
- 32MB SDRAM
- 6.0GB[5] Ultra ATA Hard Drive
- Modular 32X Max CD-ROM
- 2X AGP 4MB ATI RAGE Mobility™-P 3D Video
- 3D Positional Sound with Wavetable
- 52WHr Lithium Ion Battery
- Internal 56K Capable[6] V.90 Fax Modem
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2]
- 3-Yr Next-Business-Day On-site Service[4]

$1999 As low as $55/Mo., for 48 Mos.[17]
E•VALUE CODE: 05800-800519c

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Performance and Mobility

- Intel® Pentium® III Processor at 700MHz Featuring Intel® SpeedStep™ Technology[24]
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- 64MB SDRAM ■ 6.0GB[5] Ultra ATA Hard Drive
- Modular Removable 8X 2 Max DVD-ROM Drive
- 2X AGP 8MB ATI RAGE Mobility™-P 3D Video
- 3D Positional Sound with Wavetable
- 52WHr Lithium Ion Battery
- Internal 56K Capable[6] V.90 Fax Modem
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2]
- 3-Yr Next-Business-Day On-site Service[4]

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intel inside pentium® III

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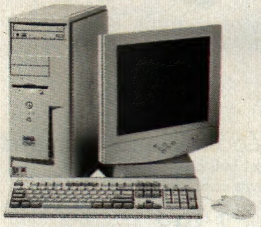

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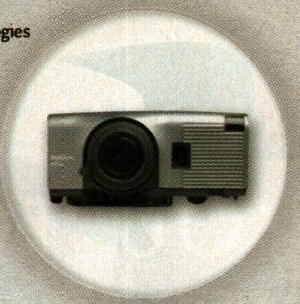

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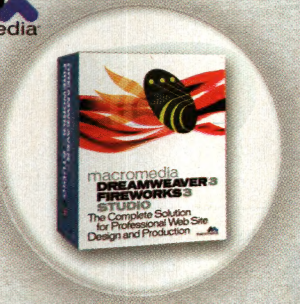

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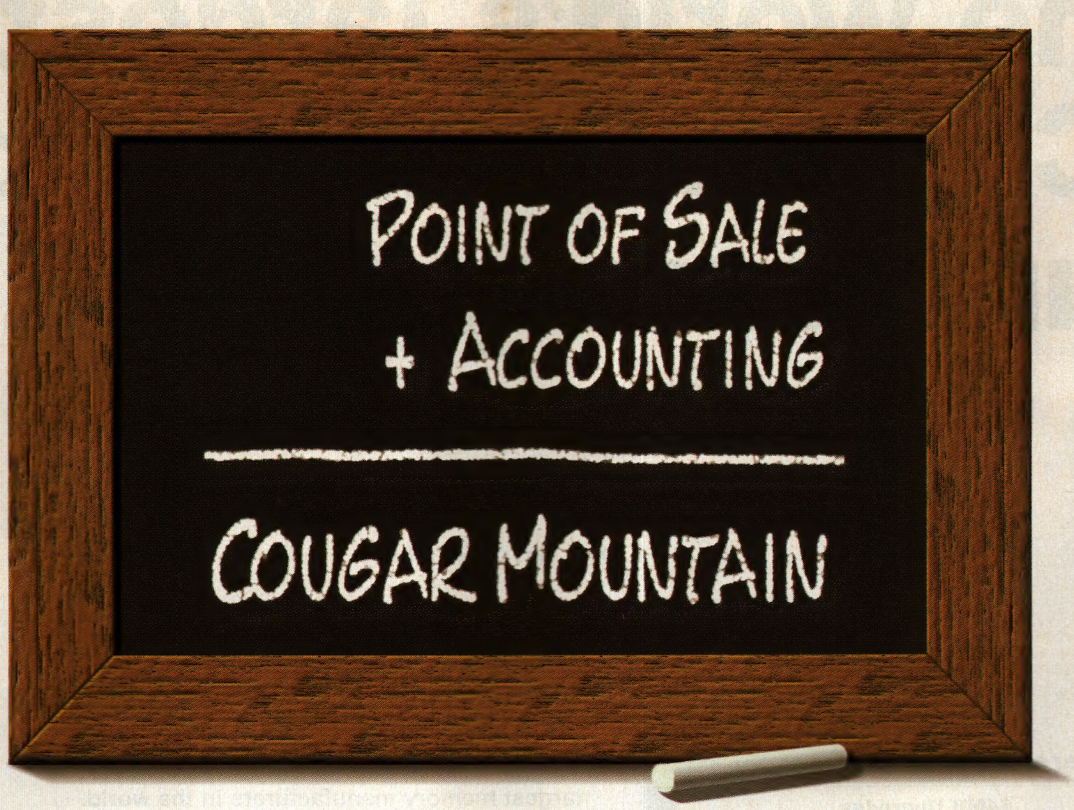

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HP	Kingston	**Crucial**
Pavilion 4530	$126.00	$57.59
Pavilion 4535	$126.00	$57.59
Kayak XU PC Workstation 440BX Chipset	$143.00	$65.69
Vectra VL Series 8	$114.00	$57.59
Apple	Kingston	**Crucial**
Power Mac G3 PC100	$126.00	$57.59
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Lee Regnier, Nexus Onarga Academy, IS Coordinator

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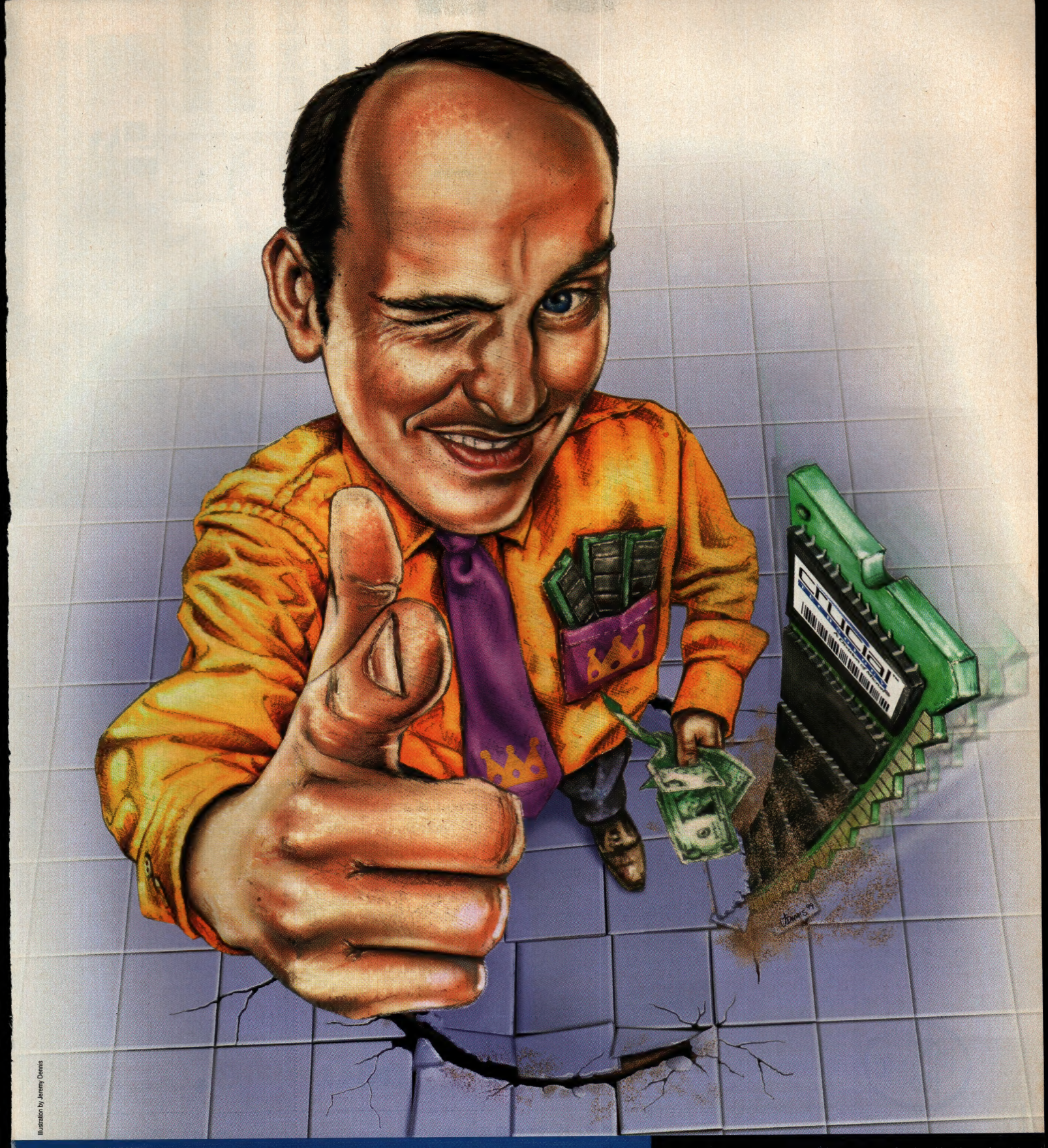

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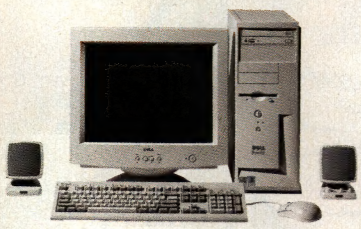
dell calls it "at-home service." luckily, that's exactly where my computer needs to be fixed.



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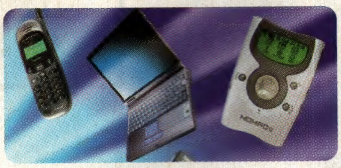

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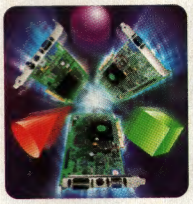

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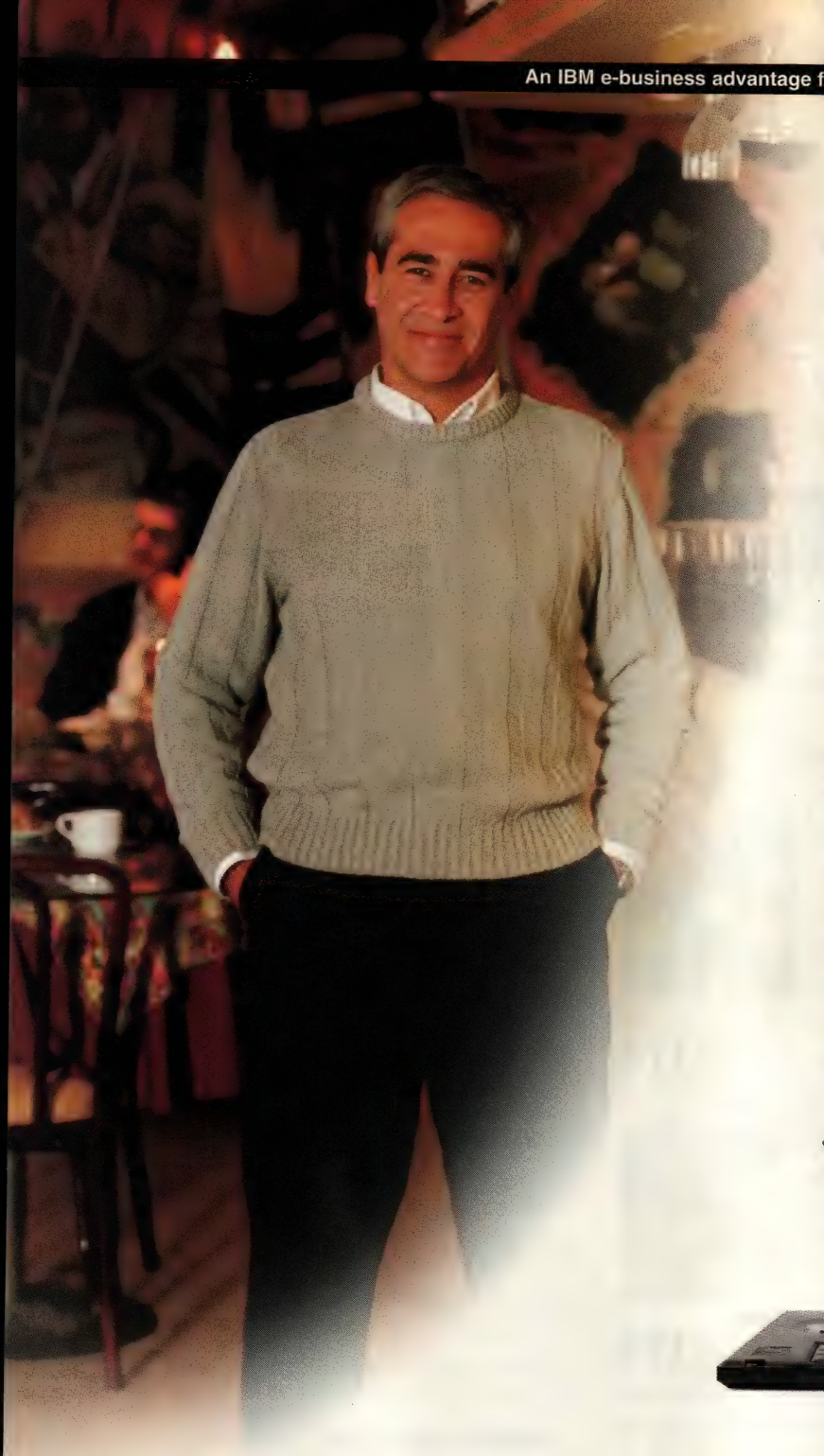

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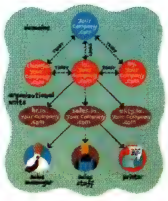

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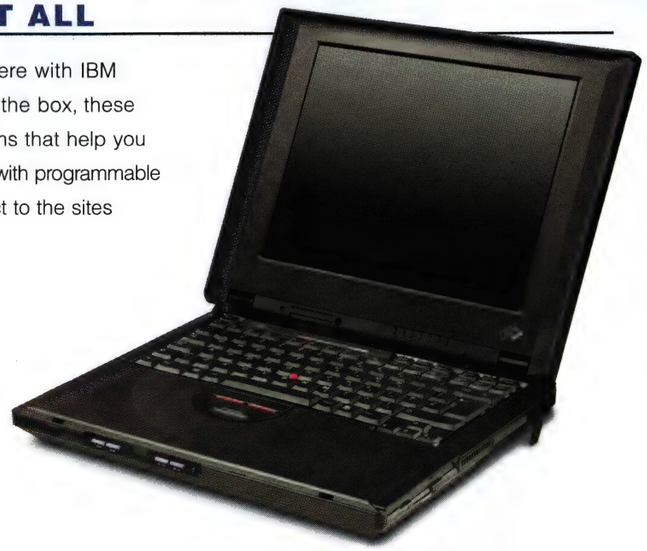

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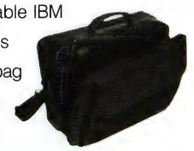

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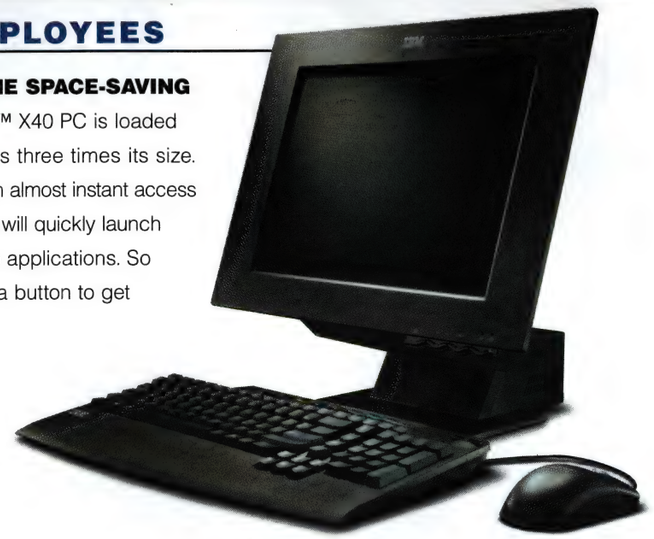

DESKTOPS

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[1]Requires Internet access account, available separately. [2]MHz measures microprocessor internal clock speed. Other factors may affect application performance. [3]GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. [4]Variable read rate. Actual playback speed will vary and is often less than the maximum possible. [5]These modems are designed to be capable of receiving data up to 56Kbps from a compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible. [6]Some software may differ from its retail version (if available), and may not include user manuals or all program functionality. For non-IBM software, applicable third-party licenses may apply. Warranty, service and support for non-IBM products, if any, are provided by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. [7]Prices shown are available from IBM directly; reseller prices may vary for ThinkPad i Series Model #2651-542, Memory Upgrade Part #20L0254, USB Hub Part #00N8215, ServicePac Part #30L9188; ThinkPad 390 Model #2626-L0U, Memory Upgrade Part #20L0254, USB Hub Part #10K3506, ServicePac Part #30L9189; ThinkPad 600 Model #2645-4EU, Memory Upgrade Part #20L0255, SelectaBase Part #12J2467, ServicePac Part #30L9197; NetVista X40 Model #6643-13U, Memory Upgrade Part #33L3136, ADSL Modem Part #19K4160, PC Video Camera Part #33L4890; PC 300GL Model #6563-88U, 17" Monitor Model #633201N, Memory Upgrade Part #33L3136, USB Hub Part #10K3506, ServicePac Part #30L9199; PC 300GL Model #6564-R3U, 17" Monitor Model #633201N, Internal IDE Drive Part #33L5019, Memory Upgrade Part #33L3137, Kodak Zoom Digital Camera Part #10K3362; IBM price does not include tax or shipping. Subject to change without notice. [8]SuccessLease offered and administered by third-party providers of business financing approved by IBM Global Financing. SuccessLease terms and conditions provided by the third party. Monthly lease payments based on 36-month term, full payout lease, to qualified business customers installing in the US. Documentation fee and first month's payment due at lease signing. Taxes are additional. Other terms and financing structures are available. Offer may be withdrawn or changed without notice. Options must be leased with system unit. [9]Weight and thickness may vary due to vendor components, manufacturing process and options; weight includes battery and travel cover. [10]Offer valid in US only until 6/30/00, or while supplies last. Part #ACTCASE. [11]Actual speeds depend on many factors, including the plan you sign up for with your ADSL provider, and are often less than the maximum possible. [12]For terms and conditions or copies of IBM's Statement of Limited Warranty, call 1-800-772-2226 in the US and in Canada call 1-800-426-2255. International Warranty Service available in those countries where this product is offered. Telephone support may be subject to additional charges. [13]This product not manufactured by IBM and IBM provides no warranty or support for this product. The manufacturer's warranty, if any, is included in the product documentation. All products ship with an operating system. IBM reserves the right to alter offerings at any time, without notice. SuccessLease and all product names are registered trademarks or trademarks of International Business Machines Corporation. Intel, the Intel Inside logo and Pentium are registered trademarks and Celeron is a trademark of Intel Corporation. Microsoft and Windows are registered trademarks of Microsoft Corporation. Other company, product and service names may be trademarks or service marks of others. ©2000 IBM Corp. All rights reserved.

JANICE CHEN

The Price Is Right

Picture this: You're reading about the latest tech product in a magazine, and no matter where you are—in your office, on the train home, or lounging in your backyard—you can instantly compare current pricing from several merchants, even buy the product, all without moving an inch. No, this is not a glimpse of some futuristic universe. This is what *Computer Shopper* offers today.

In January, we launched our e-Link program to give readers a direct path to real-time pricing and availability on the Web for all the products we review. This month, we've added wireless access and renamed the service **Price It!**—a more intuitive, to-the-point name. The service is easy to use, whether you're surfing the Web via your desktop PC's land line, or using a wireless Web phone or Palm VII connection.

To access the service from your desktop Web browser or any WAP- or HDML-enabled Web phone, just go to ***priceit.zdnet.com*** and enter the numeric Price It! code listed with any product review in the magazine.

To use Price It! on a Palm VII, go to ***wireless.zdnet.com,*** and select ZDNet To Go. From there, you'll be able to download the ZDNet Palm VII application and install it on your Palm VII. Once the application is installed (you only have to do this once), click on the Price It! link and enter the code number.

Price It! and all other ZDNet wireless applications will be available on more wireless services soon, so check back at ***wireless.zdnet.com*** often for updates.

No matter how you access Price It!, once you enter the code, you'll link directly to a list of up-to-date prices and vendors selling the product you're reading about. From there you'll be able to compare prices, check availability, read more reviews, or contact the merchant and make a purchase.

Finding the best prices for the products you want is getting easier. What's still hard is choosing technology that won't be obsolete before you can say, "That's *so* five minutes ago!" To help you zero in on the best products you can buy today—and that you'll still be using tomorrow—we've put together a special report on the state of the technology market. Beginning on p. 154, we select 10 great products in categories such as desktop PCs, notebooks, PDAs, information appliances, digital cameras, MP3 players, software, and services. Those chosen represent the best technology available today and are forerunners of trends to come.

For choosing the right products, our Best Buy awards are a good place to turn *every* month. Go to p. 70 to find out which items are at the top of our editors' pick lists. New winners this month include the cool Creative Nomad II MP3 player and an under-$800 3-megapixel camera from Canon.

COMPUTER SHOPPER Price It!™

Making a good purchasing decision entails more than choosing the right product and getting a low price. Buying from a reliable source is also key, and with new online retailers popping up all the time, educating yourself as a shopper is more important than ever. "Pry Before You Buy" (p. 190) gives you pointers to ensure your dollars are going to safe, reliable e-commerce shops.

janice_chen@zd.com

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Customer Service Representative . . . . . Aida Rodriguez
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Circulation Director . . . . . Peggy Pyle

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District Sales Manager, Central . . . . . Scott Bruce
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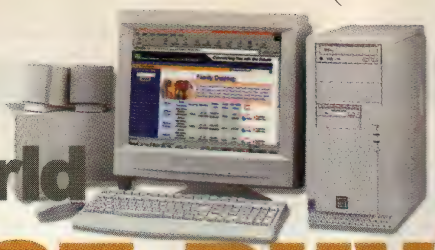

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- **PC World Best Buy** *May 2000*
  The Sierra LE boasts features and performance that put many midrange systems to shame...The 17-inch Optiquest Q71 monitor produced bright, crisp colors and sharp text at resolutions up to 1280 by 1024.
- **PC World Best Buy** *April 2000*
  Nutrend's $929 (Maestro GE) Celeron 500 earns a PC WorldBench 98 score of 214—a high number for a Windows 98 system in its CPU class. The 17-inch Optiquest Q71 monitor produces sharp text and vibrant colors.
- **Computer Shopper Best Buy & Top 100 Products of the Year**
- **Computer Buyer's Guide Best Buy (3 Times) • CNET Top 5 PC**

Sierra XE

Computer Shopper Review-May 2000

Intel® Pentium® III Processor
733MHz #3101

$1789

- 128MB Fast SDRAM Memory
- 30GB Ultra ATA66 Hard Drive
- ADI G66 19" .26 1600x1200 SVGA Color Monitor
- ATI All-In-Wonder 32MB AGP Card w/TV-Tuner and Video-In/Out
- 10X DVD-ROM Drive
- SoundBlaster Live! MP3 3D Wavetable Sound Card
- Altec Lansing ACS45.2 Speakers w/Subwoofer
- ZOOM 56K V.90 Fax Modem w/Voice Mail, Internet Ready

Recommended Upgrade: $299
- 256MB Fast SDRAM Memory
- Creative Labs Video Blaster WebCam Go USB Portable Camera

Intel® Pentium® III Processor
800MHz #3102 **$1949** **866MHz** #3103 **$2149**

Intrepid WE

128MB/30GB/19"/DVD/56K

Intel® Pentium® III Processor
733MHz #3201

$1719

- 128MB Fast SDRAM Memory
- 30GB Ultra ATA66 Hard Drive
- 19" .26 SVGA Color Monitor, PnP 1600x1200
- New nVidia GeForce256 32MB 4X AGP Video Card
- 10X DVD-ROM Drive
- SoundBlaster Live! MP3 3D Wavetable Sound Card
- Altec Lansing ACS54 5-Piece Speakers w/Subwoofer
- 3Com® US Robotics® 56K V.90 PCI Voice WinModem®

Recommended Upgrade: $279
- Creative Labs Cambridge SoundWorks FourPoint Surround FPS2000 5-Piece Speakers w/Subwoofer
- 8x4x32 CD Rewritable Drive

Intel® Pentium® III Processor
800MHz #3202 **$1879** **866MHz** #3203 **$2079**

Intrepid XE

128MB/30GB/19"/DVD/56K

Intel® Pentium® III Processor
667MHz #3300

$1529

- 128MB Fast SDRAM Memory
- 30GB Ultra ATA66 Hard Drive
- 19" .26 SVGA Color Monitor, PnP 1600x1200
- ATI Rage Fury Pro 32MB AGP Card, HW DVD w/Video In and Out
- 8X DVD-ROM Drive
- SoundBlaster Live! Value 3D Wavetable Sound Card
- Altec Lansing ACS33 Subwoofer Speaker System
- ZOOM 56K V.90 Fax Modem w/Voice Mail, Internet Ready

Recommended Upgrade: $149
- Altec Lansing ACS54 5-Piece Speakers w/Subwoofer
- Corel Draw 9.0

Intel® Pentium® III Processor
733MHz #3301 **$1589** **800MHz** #3302 **$1739**

Intrepid LE

Computer Shopper Best Buy

Intel® Pentium® III Processor
667MHz #3400

$1229

- 128MB Fast SDRAM Memory
- 20GB Ultra ATA66 Hard Drive
- 17" .27 SVGA Color Monitor, PnP 1280x1024
- nVidia TNT2 32MB 3D AGP Video Card
- 8X DVD-ROM Drive
- Yamaha 3D Wavetable Sound Card
- Labtec LCW-2414 Subwoofer Speaker System
- ZOOM 56K V.90 Fax Modem w/Voice Mail, Internet Ready

Recommended Upgrade: $99
- SoundBlaster Live! Value 3D Wavetable Sound Card
- ViewSonic 17" .26 SVGA Color Monitor, PnP 1280x1024

Intel® Pentium® III Processor
733MHz #3401 **$1289** **800MHz** #3402 **$1439**

NuTrend System Includes ◆ 1.44MB Floppy Drive ◆ 104-Key Keyboard ◆ Desktop Microphone ◆ PS/2 Mouse w/NuTrend Mouse Pad ◆ Microsoft Windows 98 w/CD & Manual ◆ Corel WordPerfect Office 2000 ◆ Grolier's Multimedia Encyclopedia

Intrepid NE

Computer Buyer's Guide Best Buy

Intel® Celeron™ Processor
566MHz #3500

$1169

- 128MB Fast SDRAM Memory
- 15GB Ultra ATA66 Hard Drive
- ViewSonic/Optiquest Q71 17" .27 1280x1024 Color Monitor
- nVidia TNT2 32MB 3D AGP Video Card
- 8X DVD-ROM Drive
- SoundBlaster PCI 128 3D Wavetable Sound Card
- Labtec LCW-2414 Subwoofer Speaker System
- ZOOM 56K V.90 Fax Modem w/Voice Mail, Internet Ready

Recommended Upgrade: $189
- Altec Lansing ACS45.2 Speakers w/Subwoofer
- 6x4x32 CD Rewritable Drive

Intel® Pentium® III Processor
667MHz #3501 **$1279** **733MHz** #3502 **$1339**

Sierra LE

PC World Best Buy

Intel® Pentium® III Processor
667MHz #3600

$1329

- 128MB Fast SDRAM Memory
- 15GB Ultra ATA66 Hard Drive
- ViewSonic/Optiquest Q71 17" .27 1280x1024 Color Monitor
- ATI Rage Fury Pro 32MB AGP Card, HW DVD w/Video In and Out
- 8X DVD-ROM Drive
- Creative Labs Ensoniq PCI 3D Wavetable Sound Card
- Labtec LCW-2414 Subwoofer Speaker System
- ZOOM 56K V.90 Fax Modem w/Voice Mail, Internet Ready

Recommended Upgrade: $229
- 30GB Ultra ATA66 Hard Drive
- Iomega 250MB Internal Zip Drive

Intel® Pentium® III Processor
733MHz #3601 **$1389** **800MHz** #3602 **$1539**

Maestro GE

PC World Best Buy

Intel® Celeron™ Processor
533MHz #3700

$899

- 64MB Fast SDRAM Memory
- 15GB Ultra ATA66 Hard Drive
- ViewSonic/Optiquest Q71 17" .27 1280x1024 Color Monitor
- ATI Xpert 98 8MB 3D AGP Video Card
- 52X CD-ROM Drive
- Yamaha 3D Wavetable Sound Card
- Labtec LCW-1050 Amplified Speaker System
- ZOOM 56K V.90 Fax Modem w/Voice Mail, Internet Ready

Recommended Upgrade: $69
- SoundBlaster Live! Value 3D Wavetable Sound Card
- Altec Lansing ACS33 Speakers w/Subwoofer

Add $69

Intel® Celeron™ Processor
566MHz #3701 **$919** **600MHz** #3702 **$949**

Maestro SE

64MB/10GB/15"/52X/56K

Intel® Celeron™ Processor
500MHz #3800

$779

- 64MB Fast SDRAM Memory
- 10GB Ultra ATA66 Hard Drive
- 15" .28 SVGA Color Monitor
- 52X CD-ROM Drive
- ATI Rage Pro 8MB Video Card
- Yamaha 3D Wavetable Sound Card
- Labtec LCW-1050 Amplified Speaker System
- ZOOM 56K V.90 Fax Modem w/Voice Mail, Internet Ready

Recommended Upgrade: $199
- 17" .27 SVGA Color Monitor, PnP 1280x1024
- Epson Stylus 760 Color Printer

Intel® Celeron™ Processor
566MHz #3801 **$819** **600MHz** #3802 **$849**

NuTrend System Includes ◆ 1.44MB Floppy Drive ◆ 104-Key Keyboard ◆ Desktop Microphone ◆ PS/2 Mouse w/NuTrend Mouse Pad ◆ Microsoft Windows 98 w/CD & Manual ◆ Corel WordPerfect Office 2000 ◆ Grolier's Multimedia Encyclopedia

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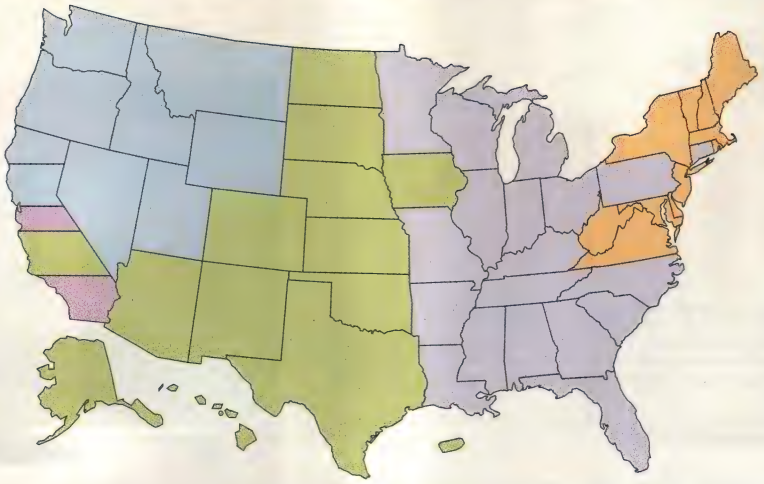

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May 2000, Dec 1999, Nov 1999, & May 1999
Computer Shopper Magazine

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You deserve the best, which is why when ABS™ wins, you win as well. Experience a PC so well crafted, it changes your expectations of how well a world class PC should be. It's time to recalibrate your mind-set of how your PC can bring you total satisfaction. ABS™ PC systems, designed to do far more than winning awards - intend to satisfy your yearning for the ultimate PC experience, because you deserve it.

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"If there ever was too much of a good thing, the Supreme DVD-1 is it."

Best Buy Award -May 1999 Computer Shopper
"Low price and excellent service and support, and you've got a winning combination."

Top 100 Products of the year, Computer Shopper 1999
"ABS™ Computer Technologies Supreme DVD-1 is a surefire hit."

PC World Top 5 Power PC's
"ABS™'s All-U-Can System 1 lives up to its name. This is an incredible deal."

Great Website, PC Magazine, November 1999
"Check out the web site of ABS™. It's a good place to start your buying adventure"

Best Buy

Computer Shopper Award Winner December 1999

Intel® Pentium III® Processor, 667MHz #6135

$1499

ABS™ SUPREME DVD3

- 128MB Fast SDRAM Memory
- 20GB Ultra DMA66 7200RPM Hard Drive
- 10X DVD-ROM
- Nvidia TNT2 128Bits 32MB 300MHz RAMDAC w/HD Open GL ICD & Direct3D/DirectX, up to 1920x1200 @16M Color
- 19" ADI G66 "Short Neck" 1600x1200 Color Monitor
- Creative Labs SoundBlaster Live! Value Sound Card & Mic
- Cambridge SoundWorks FPS2000 4 Pieces Digital Surround Sound Speaker System w/Powered Subwoofer
- ZOOM PCI 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive and Microphone
- ABS™ internet Keyboard with easy internet access keys & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition CD w/Manual
- Free Software: Corel Wordperfect Office 2000 CD
- Free Software: Grolier's Encyclopedia CD & Norton AntiVirus CD
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$139

Intel® Pentium® III Processor	
733MHz	$ 1569 #6134
750MHz	$ 1669 #6133
800MHz	$ 1719 #6132
850MHz	$ 1899 #6131
866MHz	$ 1959 #6130

Best Buy

Computer Shopper Award Winner May 2000

Intel® Pentium® III Processor, 667MHz #6145

$2169

ABS™ PERFORMANCE ALPHA

- 256MB Fast SDRAM Memory
- 30GB Ultra DMA66 7200RPM Hard Drive
- 10X DVD-ROM
- ★ Built-In 32x8x4 CD ReWritable
- Nvidia Geforce 256 32MB SDR 128Bits 4X AGP
- Digital USB Camera
- 19" ADI G66 "Short Neck" 1600x1200 Color Monitor
- Creative Labs SoundBlaster Live! Platinum Sound Card & Mic
- Cambridge SoundWorks FPS2000 4 Pieces Digital Surround Sound Speaker System w/Powered Subwoofer
- 3COM/USR PCI Hardware 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive and Microphone
- ABS™ Internet Keyboard with easy internet access keys & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition CD w/Manual
- Free Software: Corel Wordperfect Office 2000 CD
- Free Software: Grolier's Encyclopedia CD & Norton AntiVirus CD
- One Year Supreme Onsite Service

New
Canon Printer
BJC 2010 Color Inkjet
Upto 5PPM
720x360
$69
(No Rebate Hassle)

Intel® Pentium® III Processor	
733MHz	$ 2229 #6144
750MHz	$ 2329 #6143
800MHz	$ 2379 #6142
850MHz	$ 2569 #6141
866MHz	$ 2619 #6140

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ABS™ SUPREME DVD 1

- 256MB Fast SDRAM Memory
- 30GB Ultra DMA66 7200RPM Hard Drive
- 10X DVD-ROM
- Digital Color Internet Camera
- ★32X8X4 CD-ReWriter w/One Media
- Nvidia Geforce 256 32MB SDR 128Bits 4X AGP
- 19"Viewsonic/Optiquest Z90 .26DP 1600x1200 Color Monitor
- Creative Labs SoundBlaster Live! Value Sound Card & Mic
- Cambridge SoundWorks FPS2000 Digital Surround Sound
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- MS Internet Keyboard w/1 key web access & MS IntelliMouse
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service
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Intel® Pentium® III Processor

667MHz **$2059** #6115

733MHz **$ 2119** #6114 | 850MHz **$ 2459** #6111

750MHz **$ 2219** #6113 | 866MHz **$ 2509** #6110

800MHz **$ 2269** #6112

ABS™ SUPREME DVD 2

- 128MB Fast SDRAM Memory
- 20GB Ultra DMA66 7200RPM Hard Drive
- 10X DVD-ROM
- ★ 24X4X4 CD-ReWriter w/One Media
- Nvidia TNT2 "Video Edition" 128Bits 32MB with TV-In/TV-Out, Includes Video Studio 3.0SE Software
- Digital Color Internet Camera
- 19"ADI G66 "Short Neck" .26mm DP 1600x1200 Color Monitor
- Creative Labs SoundBlaster Live! Value Sound Card & Mic
- **Cambridge SoundWorks Digital 3 Pieces Sound System**
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- ABS™ Internet Keyboard & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service

Intel® Pentium® III Processor

667MHz **$1699** #6125

733MHz **$ 1759** #6124 | 850MHz **$ 2099** #6121

750MHz **$ 1859** #6123 | 866MHz **$ 2149** #6120

800MHz **$ 1909** #6122

ABS™ PERFORMANCE 1

- 256MB Fast SDRAM Memory
- 40GB Ultra DMA66 7200RPM Hard Drive
- 10X DVD-ROM
- ★ 32X8X4 CD-ReWriter w/One Media
- Digital Color Internet Camera
- **Creative Lab Anihilator Pro Nvidia GeForce 256 128Bits** 4X 32MB 350MHz DDR RAM Full OpenGL, DirectX/3D Support
- 19"ViewSonic PF790 PerfectFlat™ .25DP 1600x1200 Color Monitor
- Creative Labs SoundBlaster Live! Platinum Sound Card & Mic
- Cambridge SoundWorks FPS2000 Surround Sound System
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- **New:** MS Natural KeyboardPro & MS IntelliMouse Explore
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service

Intel® Pentium® III Processor

667MHz **$2539** #6155

733MHz **$ 2599** #6154 | 850MHz **$ 2939** #6151

750MHz **$ 2699** #6153 | 866MHz **$ 2989** #6150

800MHz **$ 2749** #6152

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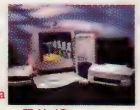

- 256MB Fast SDRAM Memory
- 40GB Ultra DMA66 7200RPM Hard Drive
- 10X DVD-ROM
- ★32X8X4 CD-ReWriter w/One Media
- Creative WebCam Go Portable Camera
- ATI All-In-Wonder 32MB AGP w/TV Tuner TV-In/Out
- 19"Viewsonic/Optiquest Z90 .26mm DP 1600x1200 Monitor
- **UPGRADE: PF790 .25DP "Perfect Flat" @$149**
- Creative Labs SoundBlaster Live! Platinum Sound Card & Mic
- ★ Cambridge SoundWorks Desktop Theater 5.1 DTT2500
- ★ 3COM/USR 56K V.90 Hardware Modem w/Speakerphone
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- **New:** MS Natural KeyboardPro & MS IntelliMouse Explore
- Microsoft Windows '98 Second Edition, Manual & CD
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- USB Flatbed Color 36Bits 300x600DPI Scanner
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- ★ One Year Supreme Onsite Service

Intel® Pentium® III Processor

667MHz **$2679** #6175

733MHz **$ 2739** #6174 | 850MHz **$ 3069** #6171

750MHz **$ 2839** #6173 | 866MHz **$ 3129** #6170

800MHz **$ 2889** #6172

ABS™ ALL U CAN SYSTEMS 2

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- 30GB Ultra DMA66 7200RPM Hard Drive
- 10X DVD-ROM
- ATI All-In-Wonder 32MB AGP w/ TV Tuner TV-In/Out
- Digital Color Internet Camera
- ★ **Built-In 24X6X4 CD-ReWriter w/One Media**
- 19" .26mm DP 1600x1200 Color Monitor
- Creative Labs SoundBlaster Live! Value Sound Card & Mic
- Cambridge SoundWorks FPS2000 Surround Sound System
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- **New:** MS Natural KeyboardPro & MS IntelliMouse Explore
- Microsoft Windows '98 Second Edition, Manual & CD
- Corel WordPerfect Office 2000 & Norton Antivirus
- USB Flatbed Color 36Bits 300x600DPI Scanner
- Canon Bubble Jet 2010 Color Printer
- ★ One Year Supreme Onsite Service

Intel® Pentium® III Processor

667MHz **$2079** #6185

733MHz **$ 2139** #6184 | 850MHz **$ 2479** #6181

750MHz **$ 2239** #6183 | 866MHz **$ 2529** #6180

800MHz **$ 2289** #6182

ABS™ ALL U CAN SYSTEMS 3

- 128MB Fast SDRAM Memory
- 20GB Ultra DMA66 7200RPM Hard Drive
- 8X DVD-ROM
- ★ **Built-In 100MB Internal Zip Drive**
- Digital Color Internet Camera
- ATI All-In-Wonder 16MB AGP w/TV Tuner TV-In/Out
- 19" .26mm DP 1600x1200 Color Monitor
- Creative Labs SoundBlaster Live! Value Sound Card & Mic
- Altec Lansing ACS45.2 Subwoofer Speaker System
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- ABS™ Internet Keyboard & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service

Intel® Pentium® III Processor

667MHz **$1579** #6195

733MHz **$ 1639** #6194 | 850MHz **$ 1969** #6191

750MHz **$ 1739** #6193 | 866MHz **$ 2029** #6190

800MHz **$ 1789** #6192

ABS™ INTERNET PC 1

- 128MB Fast SDRAM Memory
- 20GB Ultra DMA66 Hard Drive
- 8X DVD ROM
- 17" .27DP 1280x1024max Color Monitor
- Creative Labs Ensoniq 32V Sound Card & Mic
- Nvidia TNT2 128Bits 32MB 300MHz RAMDAC w/HD Open GL ICD & Direct3D/DirectX, up to 1920x1200@16M Color
- Altec Lansing ACS33 Speaker System with Subwoofer
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- ABS™ Internet Keyboard & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service

Intel® Celeron™ Processorw/128KB Cache

500MHz **$1059** #6079

600MHz **$ 1109** #6078

Intel® Pentium® III Processor

667MHz **$ 1199** #6075 | 750MHz **$ 1359** #6073

733MHz **$ 1259** #6074 | 800MHz **$ 1409** #6072

ABS™ INTERNET PC 2

- 64MB Fast SDRAM Memory
- 10GB Ultra Hard Drive
- 48X Max CD-ROM Drive
- ATI Xpert98 8MB AGP Graphic Card
- 15" .28DP Color Monitor
- Creative Labs Ensoniq 32V Sound Card & Mic
- Labtec LCS-1050 Powered Stereo Speakers
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- ABS™ 104Keys Keyboard & ABS™ NetScroll Mouse w/Mouse Pad
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service

Intel® Celeron™ Processorw/128KB Cache

500MHz **$819** #6089

600MHz **$ 1109** #6088

Intel® Pentium® III Processor

667MHz **$ 959** #6085 | 750MHz **$ 1119** #6083

733MHz **$ 1019** #6084 | 800MHz **$ 1169** #6082

ABS™ Multimedia System 6

- ★ **CNet Editor's Choice January 2000**
- 64MB Fast SDRAM Memory
- 6.4GB Ultra Hard Drive
- 6X DVD-ROM Drive
- ATI Xpert98 8MB AGP Graphic Card
- 15" Color 1024x768Max Monitor
- Creative Labs Ensoniq 32V Sound & Mic
- Labtec LCS-1050 Powered Stereo Speakers
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S,1P,1G,2USB
- ABS™ Keyboard & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service

Intel® Celeron™ Processor w/128KB Cache

500MHz **$ 829** #6069

600MHz **$ 1109** #6068

Intel® Pentium® III Processor

667MHz **$ 959** #6065 | 750MHz **$ 1119** #6063

733MHz **$ 1019** #6064 | 800MHz **$ 1179** #6062

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Again & Again

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ABS™ SUPREME 3D SYSTEM 1

- 256MB Fast SDRAM Memory
- 30GB Ultra DMA66 7200RPM HD
- 52X CD-ROM Drive
- ★ ATI Rage Fury Maxx 64MB AGP
- ★32X8X4 CD-ReWriter w/1 Media
- 19" .26mm DP 1600x1200 Monitor
- Creative Labs SoundBlaster Live! Value Sound Card & Mic
- Altec Lansing ACS45.2 Subwoofer Speaker System
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- ABS™ Keyboard & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service
- ★UPGRADE TO: 19" ADI G66 "Short-Neck" .26mm DP 1600x1200 Monitor @$49

667MHz — Intel® Pentium® III Processor **$1889** #6015

733MHz **$ 1949** #6014 | 850MHz **$ 2279** #6011
750MHz **$ 2049** #6013 | 866MHz **$ 2339** #6010
800MHz **$ 2099** #6012

ABS™ SUPREME 3D-1 GS

- ★ Computer Buyers Guide and Handbook Best Buy, February 2000
- 128MB Fast SDRAM Memory
- 20GB Ultra DMA66 Hard Drive
- NVidia TNT2 128Bits 32MB 300MHz RAMDAC HW OpenGL, DirectX/3D
- ★ Built-In 32X6X4 CD-ReWriter w/One Media
- 19" .26mm DP 1600x1200 Color Monitor
- Creative Labs SoundBlaster PCI128 Sound Card & Mic
- Altec Lansing ACS33 Subwoofer Speaker System
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- ABS™ Internet Keyboard & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition, Manual & CD
- ★ One Year Supreme Onsite Service
- ★ Upgrade To: Three Years Onsite Labor @$99
- ★ ADD: 52X Max CD-ROM Drive @$49

667MHz — Intel® Pentium® III Processor **$1439** #6085

733MHz **$ 1499** #6084 | 850MHz **$ 1839** #6081
750MHz **$ 1599** #6083 | 866MHz **$ 1889** #6080
800MHz **$ 1649** #6082

ABS™ SUPREME 3D SYSTEM 2

- 128MB Fast SDRAM Memory
- 20GB Ultra DMA66 HD
- 52X CD-ROM Drive
- NVidia TNT2 128Bits 32MB 300MHz RAMDAC HW OpenGL, DirectX/3D
- 19" .26mm DP Color Monitor
- Creative Labs Ensoniq 32V Wavetable Sound Card
- Altec Lansing ACS33 Subwoofer Speaker System
- ZOOM 56K V.90 Data/Fax/Voice Modem & Mic
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- ABS™ Keyboard & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service
- ★UPGRADE TO: 10X DVD ROM @$79

500MHz — Intel® Celeron™ Processor w/128KB Cache **$1139** #6029

600MHz **$ 1189** #6028

Intel® Pentium® III Processor

667MHz **$ 1279** #6025 | 750MHz **$ 1439** #6023
733MHz **$ 1339** #6024 | 800MHz **$ 1489** #6022

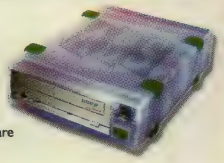
ABS GRAPHIC PC

- 256MB Fast SDRAM Memory
- 40GB Ultra DMA66 7200RPM Hard Drive
- 10X DVD-ROM
- ★32x8x4 CD-ReWriter w/One Media
- Creative Lab WebCam Go Portable Camera
- Matrox G400 Max "Dual Mode" 32MB AGP w/TV Out
- ★Two (2) 19" ADI G66 "Short Neck" .26mm DP Color Monitor
- Creative Labs SoundBlaster Live! Value Sound Card & Mic
- Cambridge SoundWorks Digital 3 Pieces Sound System
- ZOOM 56K V.90 Data/Fax/Voice Modem
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- New: MS Natural KeyboardPro & MS IntelliMouse Explore
- Microsoft Windows '98 Second Edition, Manual & CD
- Free Grolier's Encyclopedia CD & Norton AntiVirus
- Free Software: Corel WordPerfect Office 2000 CD
- ★ One Year Supreme Onsite Service
- ★ ADD: Corel Draw 9.0 @$89

667MHz — Intel® Pentium® III Processor **$2559** #6165

733MHz **$ 2609** #6164 | 850MHz **$ 2949** #6161
750MHz **$ 2709** #6163 | 866MHz **$ 2999** #6160
800MHz **$ 2769** #6162

ABS™ PORTABLE CD-ReWriter



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32X8X4 PC Version #6932 **$309**
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128MB PC100 Fast SDRAM (Single Chip) $139
128MB PC133 Fast SDRAM (Single Chip) $149
256MB PC133 Fast SDRAM (Single Chip) $269

Monitor
Upgrade from 15" to 17" .27DP Moitor $79
Upgrade from 17" to 19" .26DP 1600x1200Max Moitor $119

Upgrade from 17".27 to ADI Monitors
ADI E75 17" .26 1600x1200 Monitor $59
ADI G66 19" .26 "Short-Neck" 1600x1200 Monitor w/Mic $139

Upgrade from 17".27 to ViewSonic Monitors
ViewSonic PS775 17" .25 SVGA $159
ViewSonic E790 19" .26 SVGA $209
ViewSonic PF790 PerfectFlat™ 19" .25 SVGA $329

CD-ReWriter and Zip Drive
Zip 100MB Drive Internal $75
Zip 250MB Drive Internal EIDE $159
32X6X4 CD-RW $189
32x8x4 CD-RW $229

Printer & Scanner
Canon Color Ink Jet BJC2000 720x360DPI 5PPM $69
Epson Styles 670 Printer 1440X720DPI 5PPM $89
Epson Styles 740 Printer 1440X720DPI 6PPM (before $50 Rebate) $149
USB 36Bit FlatBed 600x1200 Scanner $69

Mouse and Keyboard
Microsoft IntelliMouse Explore $69
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Software
Microsoft Office 2000 SBE $199
Microsoft WorkSuite 2000 with Word, Works, Encarta, Money $99
Special: Corel Draw 9.0 ..... $89

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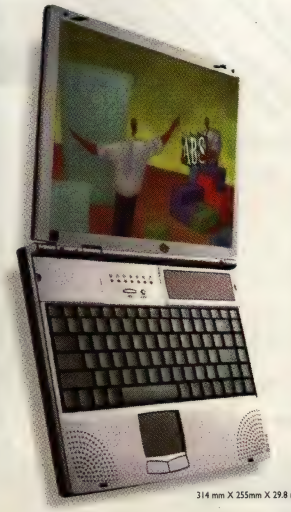

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- Lithium-ion Battery, AC Adapter, Carrying Case
- Microsoft Windows '98 Second Edition, Manual & CD
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400MHz **$ 2019** #6892

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BIZ $23.90*/MO.	200MB	5DSN	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CORPORATE $44.90*/MO.	300MB	UNLIMITED		YES		YES		YES		YES		YES

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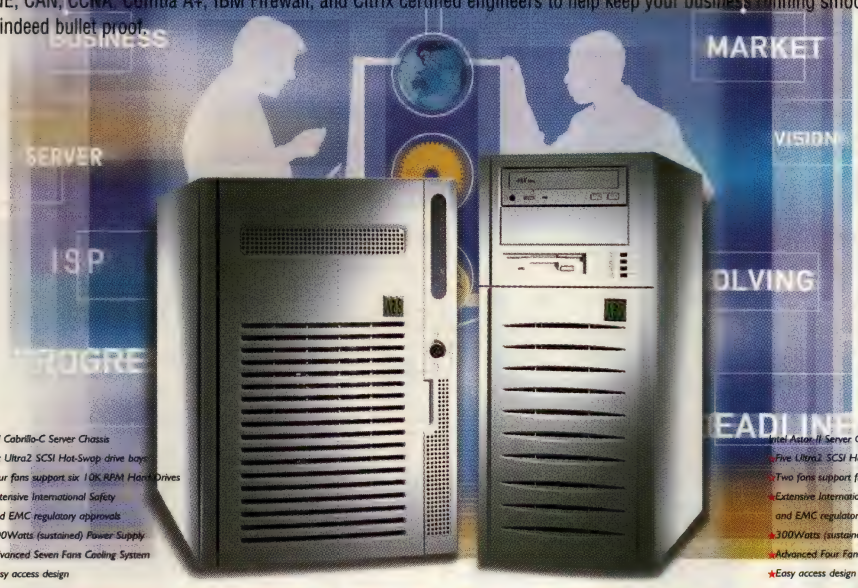

Intel Cabrillo-C Server Chassis
Six Ultra2 SCSI Hot-Swap drive bays
Four fans support six 10K RPM Hard Drives
Extensive International Safety and EMC regulatory approvals
400Watts (sustained) Power Supply
Advanced Seven Fans Cooling System
Easy access design

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Five Ultra2 SCSI Hot-Swap drive bays
Two fans support five 10K RPM Hard Drives
Extensive International Safety and EMC regulatory approvals
300Watts (sustained) Power Supply
Advanced Four Fans Cooling System
Easy access design

INTEL ISP/INDUSTRIAL RACK SERVERS

- **Intel 2150 2U Rack Server**
- Intel L440GX Server Board
- (Dual Processor Upgradeable)
- 128MB ECC Fast SDRAM Memory
- 9GB Ultra2Wide SCSI 7200RPM

600MHz | Intel® Pentium® III Processor **$2119** #6871
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- Integrated 2MB SGRAM Video Card
- Integrated EtherExpress Pro+10/100
- Integrated SCSI Dual Channel Ultra/Wide and Ultra/Narrow SCSI Controller
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- Intel Astor II Server Chasis w/5 Hot-Swap Drive Bays w/2 Fans
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600MHz | Intel® Pentium® III Processor **$1689** #6850
*Bus. Leases starting at **$66**/MO. (36-MO.)*
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700MHz **$ 1789** #6852 | 800MHz **$ 1929** #6854

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- ABS™ Keyboard & ABS™ NetScroll Mouse
- Intel Astor II Server Chasis w/5 Hot-Swap Drive Bays w/2 Fans
- Optional Microsoft NT Server 4.0 w/10 Client Access @$525
- Optional Raid 1 w/One Extra 9GB SCSI U2W HD @$250
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600MHz | Intel® Pentium® III Processor **$2209** #6860
*Bus. Leases starting at **$86**/MO. (36-MO.)*
650MHz **$ 2259** #6861 | 750MHz **$ 2399** #6863
700MHz **$ 2309** #6862 | 800MHz **$ 2449** #6864

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- (Dual Processor Upgradeable)
- 256MB ECC Fast SDRAM Memory
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- 52X CD-ROM Drive
- Integrated 2MB SGRAM Video Card
- Integrated EtherExpress Pro+10/100
- Integrated SCSI Dual Channel Ultra/Wide and Ultra/Narrow SCSI Controller
- Adaptec Raid Controller 133U2 w/CI/O Management Software
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 2USB
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- Intel Cabrillo C Server Chasis w/5 Hot-Swap Drive Bays w/2 Fans
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550MHz | Intel® Pentium® III Xeon™ Processor **$4139** #6870
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- 10/100 Ethernet Card
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 2USB
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667MHz | Intel® Pentium® III Processor **$969** #6810
*Bus. Leases starting at **$39**/MO. (36-MO.)*
733MHz **$ 1029** #6811 | 750MHz **$ 1129** #6812
Intel® Celeron™ Processor w/128KB Cache
533MHz **$ 849** #6813 | 500MHz **$ 829** #6814

CONQUEST SB DESKTOP

Small Business

- Intel CC820 Motherboard
- 128MB Fast SDRAM Memory
- 20GB Ultra DMA66 7200RPM HD
- Creative Lab 52X CD-ROM Drive
- 17" .27mm DP Color Monitor
- Matrox G400 32MB AGP Dual Monitor Support w/TV Out
- Creative Labs Ensoniq 32V Sound
- Labtec LCS1050 Power Stereo System
- 3Com/USR 56K V.90 Data/Fax/Voice Modem & Mic
- 3Com 10/100Base-T Ethernet Card
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 2USB
- ABS™ Keyboard & ABS™ NetScroll Mouse
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667MHz | Intel® Pentium® III Processor **$1449** #6820
*Bus. Leases starting at **$56**/MO. (36-MO.)*
733MHz **$ 1519** #6821 | 750MHz **$ 1609** #6822
800MHz **$ 1659** #6823 | 850MHz **$ 1849** #6824
866MHz **$ 1869** #6825

CONQUEST HP DESKTOP

High Performance

- Intel CC820 Motherboard
- 256MB Fast SDRAM Memory
- 27GB Ultra DMA66 Hard Drive
- 10X DVD-ROM Drive
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- Matrox G400 32MB AGP Dual Monitor Support w/TV Out
- 19" .26DP 1600x1200 Color Monitor
- Creative Labs Live! Value Sound & Mic
- Altec Lansing 45.2 Powered Stereo Speakers w/Subwoofer
- 3Com/USR 56K V.90 & 10/100Base-T Ethernet Card
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- ABS™ Keyboard & ABS™ NetScroll Mouse
- Microsoft Windows '98 Second Edition, Manual & CD
- Microsoft Word, Works, Encarta, Money & Norton Antivirus
- ★ One Year Supreme Onsite Service

667MHz | Intel® Pentium® III Processor **$2069** #6830
*Bus. Leases starting at **$80**/MO. (36-MO.)*
733MHz **$ 2129** #6831 | 750MHz **$ 2219** #6832
800MHz **$ 2279** #6833 | 850MHz **$ 2449** #6834
866MHz **$ 2469** #6836

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- 6GB Removable Module Hard Drive
- 24X CD-ROM & 1.44MB Floppy Drive
- 8MB 128Bits 2X AGP Graphics
- 56Kbps V.90 Data/Fax Modem PCMCIA
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600MHz **$ 2089** #6881
650MHz **$ 2209** #6882
700MHz **$ 2369** #6883

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BARGAIN-HUNTER'S HANDBOOK

Your April feature "Picking Out the Pieces" (p. 176) was very helpful. As a newbie to the world of PCs, I really appreciate any advice on where to shop for the best hardware at a reasonable price. I've become a software and hardware junkie in a relatively short time, and I've been burned a few times. I want only the best products for my PC and see no sense in upgrading with inferior and cheap components. I will use your suggestions as a guide for my PC shopping.

CHARLOTTE A. ARCAND

BETTER THE SECOND TIME AROUND

The April Buying Advisor ("Rebuilt and Reduced," p. 280) hits it right on the nose: If you're looking to save money on a laptop, buying refurbished is the way to go. I recently purchased a refurbished Dell Inspiron 7500, and I'm very happy with my decision. It's difficult to tell the difference between my notebook and a new one, and when I compared specs for the same configuration on Dell's Web site I found that I had saved $1,000! I'm still covered under the same warranty and have the same great service that's offered to buyers of new laptops.

CRAIG GOMILA

I bought a refurbished IBM 760ED laptop five months ago for $550. It's got an Intel 133MHz Pentium processor and 32MB of RAM. Yes, it's sometimes a little slow, but at my age the most important aspect of a notebook is the quality of its display. In that regard, this machine is tops. Another bonus: The unit is still under the original three-year IBM warranty, with full customer support.

KAI CREMATA

SNEAKY SHIPPING

I was surprised to see that your e-Shopper Web-site reviews give Buycomp.com a thumbs-down for charging a $4.95 handling fee on all hardware and software purchases. I've ordered from many other places and have found that BuyComp has some of the lowest shipping charges around. And let's not forget its normally low prices, too. Most sites won't even tell you their shipping charges until you give them all your info, and then they smack you with a $20 fee for a simple $100 order.

STEVE KRUT

AMD AHEAD

I found Michael Slater's April column, "A Plethora of PC Processors" (p. 80), misleading about AMD's recent leadership in the processor market. Slater stated that AMD's 3DNow graphics instructions are roughly similar to the SSE instructions Intel uses in its chips. That's true, but the wording made it sound as if AMD is still following Intel's lead. The truth of the matter is that only Intel's processors lack 3DNow instructions. All other processor manufacturers have 3DNow and MMX, and that's why Intel felt the pressure to develop the Pentium II with SSE, otherwise known as the Pentium III. In my opinion, it is more accurate to say that the SSE instructions resemble AMD's 3DNow extensions, not the other way around.

KERRY R. SMITH

CORRECTION

Due to an editing error, we inaccurately described the Celeron processor in Michael Slater's April column ("A Plethora of PC Processors," p. 80). The correct description: "Celeron has an on-chip L2 cache of only 128K, compared with the 256K for the recent (Coppermine) Pentium III, and the Celeron cache runs at half the speed of Pentium III's."

As Slater points out, the difference in the size of the caches has nothing to do with the difference in their speed. (It's a widespread misconception that both chips' caches run at full processor speed.) What's most important is bandwidth. The Celeron has a 64-bit path to the L2 cache that's accessed once per clock cycle; the Pentium III accesses the L2 cache once every two clock cycles, but it has a 256-bit data path, which is four times as wide as the Celeron's. As a result, the L2 cache bandwidth is twice as high: four times as much data per transfer, but half as many transfers per unit time.

In addition, at press time AMD had planned to make its K6-2+ available for desktops as well as notebooks. The company has since decided to limit the processor to the notebook market.

<COMING NEXT MONTH>

Fast-Lane Notebooks

We put six fully loaded 650MHz Pentium III notebooks to the test to find out which is the fastest—and which delivers the best performance for the money. Plus, our Shopper's Guide gives you tips on how to buy just about any notebook.

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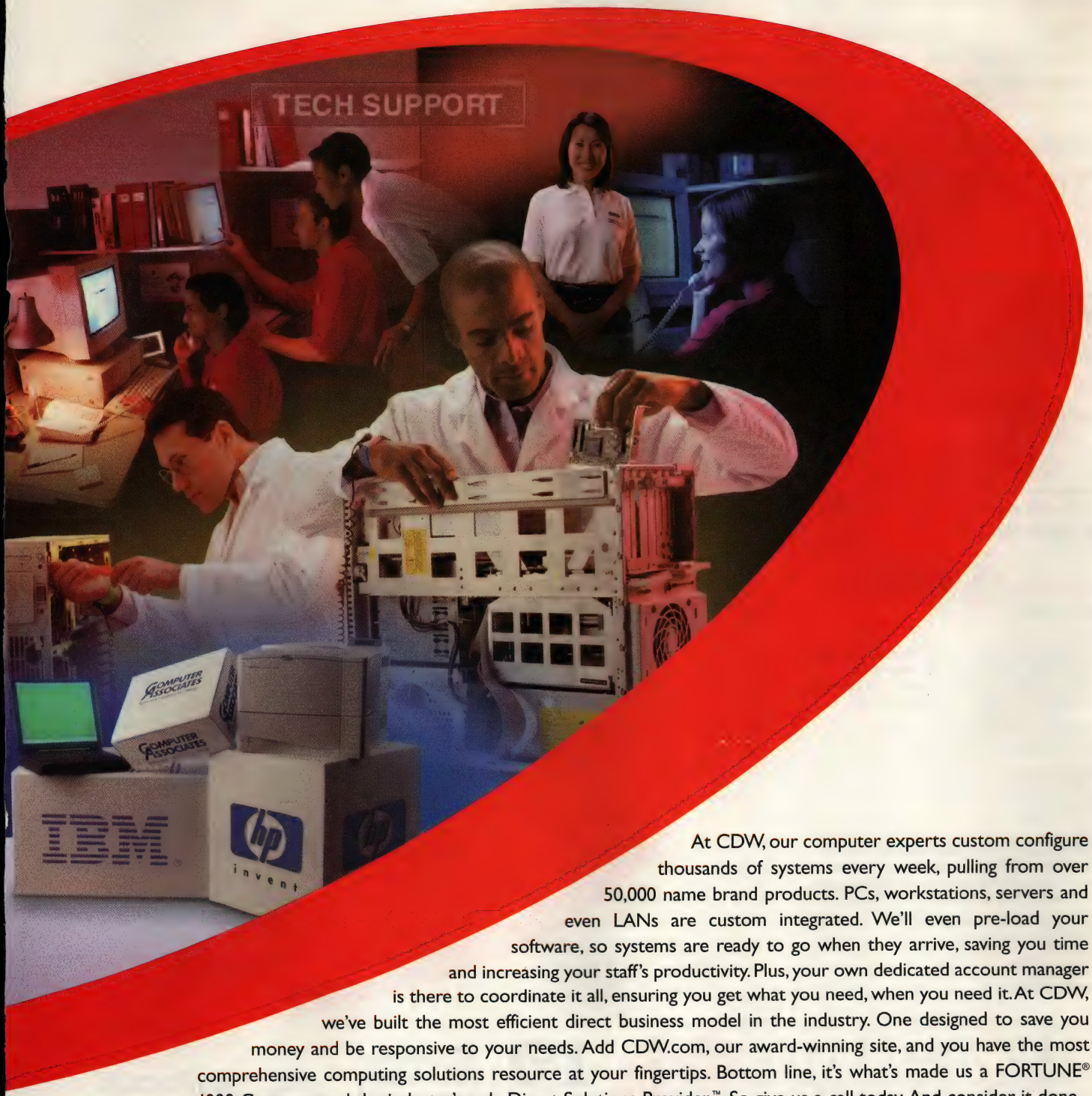

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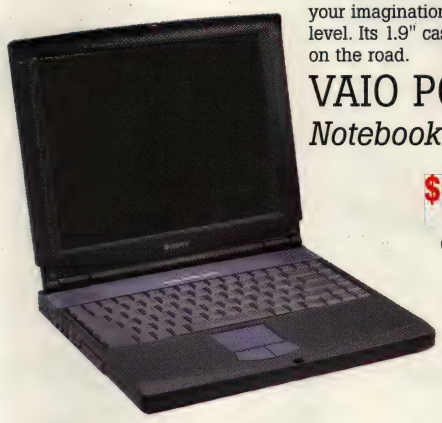

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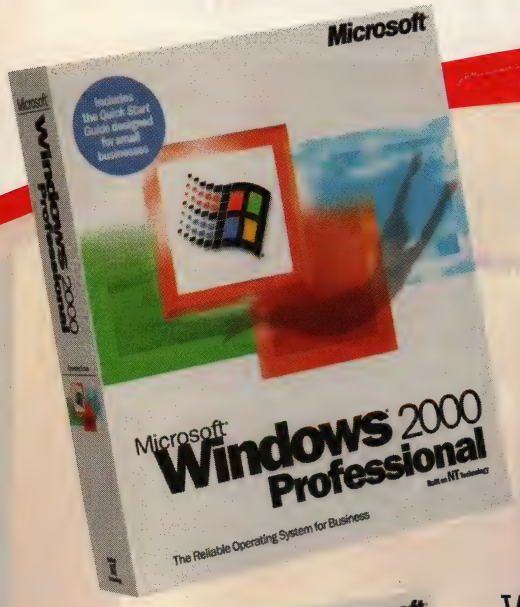

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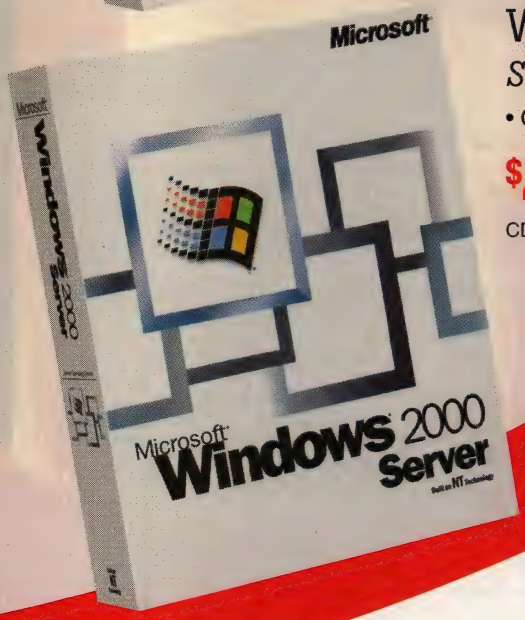

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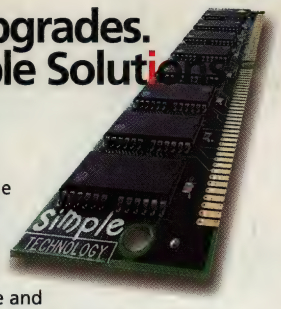

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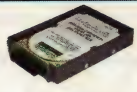

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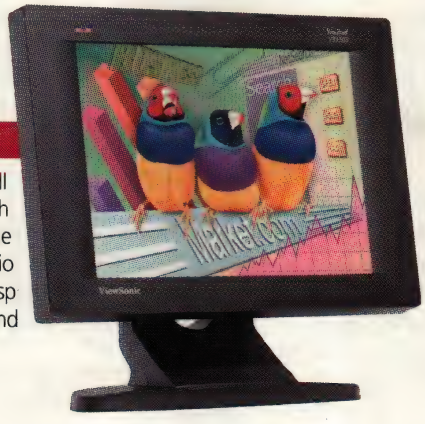
Our MultiMedia monitors provide the ultimate in sight and sound. The new M70 is a 17" (16.0" viewable) 0.24mm horizontal (0.27mm diagonal) dot pitch monitor with a maximum resolution of 1,280 x 1,024.



ViewPanel® Series - VE150B

For those needing a large screen that fits into small spaces, ViewSonic announces the sleek and stylish VE150B, our new black bezel 15" ViewPanel. A true resolution of 1,024 x 768 and a 350:1 contrast ratio that supports 16.7 million colors, assures sharp, crisp text and bright images. The VE150B fits your desk and pocketbook.

E2® Series

ViewSonic Model	CRT Size/ Viewable	Horizontal Dot Pitch	Maximum Resolution	OnView™	Low Radiation
E40	14/13.2	0.25	1024 x 768	LED	MPR-II
E651	15/13.8	0.24	1024 x 768	YES	MPR-II
E655	15/13.8	0.24	1280 x 1024	YES	TCO '92
EF70#	17/16.0	0.25/AG	1280 x 1024	YES	MPR-II
E771	17/16.0	0.24	1280 x 1024	YES	MPR-II
E773	17/16.0	0.23	1280 x 1024	YES	TCO '99
E790 ∞◇	19/18.0	0.22	1600 x 1280	YES	TCO '95

∞Also available in black bezel #PerfectFlat

Graphics Series

ViewSonic Model	CRT Size/ Viewable	Horizontal Dot Pitch	Maximum Resolution	OnView Controls	TCO Low Radiation
G655	15/14.0	0.24	1280 x 1024	YES	TCO '99
G773**	17/16.0	0.22	1280 x 1024	YES	TCO '92
G575*	17/16.0	0.23	1280 x 1024	YES	TCO '92
G573*	17/16.0	0.22	1280 x 1024	YES	TCO '92
G590*	19/18.0	0.22	1600 x 1280	YES	TCO '92
G810	21/20.0	0.22	1600 x 1280	YES	TCO '92

*Short Depth Monitor **Multi-port USB hub

Professional Series

ViewSonic Model	CRT Size/ Viewable	Horizontal Dot Pitch/ Aperture Grille Pitch	Maximum Resolution	TCO Low Radiation
PF77#Δ	17/16.0	0.25/AG	1600 x 1280	TCO '99
PF775#	17/16.0	0.25/AG	1600 x 1280	TCO '99
PS775◇*	17/16.0	0.22	1600 x 1280	TCO '99
PF97#Δ	19/18.0	0.25-0.27/AG	1600 x 1280	TCO '99
PF790#	19/18.0	0.25-0.27/AG	1600 x 1280	TCO '99
PF795#	19/18.0	0.25-0.27/AG	1920 x 1440	TCO '99
PS790*	19/18.0	0.22	1600 x 1280	TCO '99
P810	21/20.0	0.22	1800 x 1440	TCO '99
P815**	21/20.0	0.22	1800 x 1440	TCO '99
P817**	21/20.0	0.22	2048 x 1536	TCO '99
PF815#	22/20.0	0.25-0.27/AG	1920 x 1440	TCO '99

*Short Depth Monitor **Multi-port USB hub
◇Multi-port USB hub and Short Depth #PerfectFlat ΔDigital CRT

MultiMedia Series

ViewSonic Model	CRT Size/ Viewable	Horizontal Dot Pitch	Maximum Resolution	TCO Low Radiation	Speakers
M50	15/13.8	0.24	1280 x 1024	TCO '92	2-watt (X2)
M70 ∞◇	17/16.0	0.24	1280 x 1024	TCO '92	2-watt (X2)

∞Also available in black bezel

ViewPanel Series

ViewSonic Model	Screen Viewable	Special Feature	Maximum Resolution	Analog Interface	Bezel Integrated Speakers
VP140	14.0	WALL MOUNTABLE	1024 x 768	YES	
VE150	15.0	WALL MOUNTABLE	1024 x 768	YES	
VE150B	15.0	BLACK VERSION	1024 x 768	YES	
VG150	15.0	WALL MOUNTABLE	1024 x 768	YES	
VP150	15.0	WALL MOUNTABLE	1024 x 768	YES	
VPA150	15.0	PIVOT	1024 x 768	YES	YES
VPD150	15.0	PIVOT	1024 x 768	DIGITAL INTERFACE	YES
VP151†	15.0	COMPOSITE VIDEO	1280 x 1024	DIGITAL/ ANALOG	YES
VP181†	18.1	COMPOSITE VIDEO	1600 x 1200	DIGITAL/ ANALOG	YES

For more information on the company that's won over 600 industry awards, call one of the listed ViewSonic dealers or visit ViewSonic at: www.ViewSonic.com/shopper

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(800) 888-8583 Copyright © 2000, ViewSonic Corporation. All rights reserved. Specifications subject to change without notice. Corporate names and trademarks stated herein are the property of their respective companies. **USB is compatible with Windows® 98 and also requires USB-equipped computers and peripheral devices. † Currently, audio, composite video and picture-in-picture features are supported via analog only.

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Integrated Intel 4MB 3D Graphics
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24X CD-ROM drive[3]
Integrated 56K V.90 modem[5]
Integrated AC adapter
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AWARDS[1]

Armada E500 — WinList
WinMag.com, January 2000

Deskpro EP — Best of the Best
WinMag.com, September 1999

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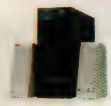

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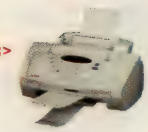

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- 3D Surround Sound
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- Built-In Touchpad Pointing Device
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- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
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- 3D Surround Sound
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- 2 Type II or 1 Type III PCMCIA Slots
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- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Deluxe Carrying Case
- Weight: 6.6 lbs with Battery
- 12.4"w x 10.1"d x 1.58"h
- Sager's Umbrella Protection Policy

$2395

NP3350e

- **14.1" XGA Active Matrix Display**
- **Mobile Pentium® III Processor 600MHz Featuring Intel® SpeedStep™ Technology**
- **128MB 100MHz SDRAM**
- **12.0GB Ultra DMA Hard Drive**
- **6X Max. DVD-ROM Drive†**
- **Modular 3.5" FDD exchangeable with LS-120 Drive or 2nd HDD**
- **IEEE-1394 Port**
- 256KB On-die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- 3D Surround Sound
- Smart Lithium-Ion Battery
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots
- Infra Red, Wireless Fast IR Interface
- 1 TV-Out Port
- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Deluxe Carrying Case
- Weight: 6.6 lbs with Battery
- 12.4"w x 10.1"d x 1.58"h
- Sager's Umbrella Protection Policy

$2245

NP3350c

- **14.1" XGA Active Matrix Display**
- **Mobile Pentium® III Processor 500MHz Featuring Intel® SpeedStep™ Technology**
- **128MB 100MHz SDRAM**
- **12.0GB Ultra DMA Hard Drive**
- **24X Max. CD-ROM Drive***
- **Modular 3.5" FDD exchangeable with LS-120 Drive or 2nd HDD**
- **IEEE-1394 Port**
- 256KB On-die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- 3D Surround Sound
- Smart Lithium-Ion Battery
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots
- Infra Red, Wireless Fast IR Interface
- 1 TV-Out Port
- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Deluxe Carrying Case
- Weight: 6.6 lbs with Battery
- 12.4"w x 10.1"d x 1.58"h
- Sager's Umbrella Protection Policy

$1995

NP3350b

- **14.1" XGA Active Matrix Display**
- **Intel® Pentium® III Processor 500MHz**
- **64MB 100MHz SDRAM**
- **6.0GB Ultra DMA Hard Drive**
- **24X Max. CD-ROM Drive***
- **Modular 3.5" FDD exchangeable with LS-120 Drive or 2nd HDD**
- **IEEE-1394 Port**
- 256KB On-die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- 3D Surround Sound
- Smart Lithium-Ion Battery
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots
- Infra Red, Wireless Fast IR Interface
- 1 TV-Out Port
- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Deluxe Carrying Case
- Weight: 6.6 lbs with Battery
- 12.4"w x 10.1"d x 1.58"h
- Sager's Umbrella Protection Policy

$1895

NP2330s

- **14.1" XGA Active Matrix Display**
- **Intel® Celeron™ Processor 533MHz**
- **128MB SDRAM**
- **12.0GB Ultra DMA Hard Drive**
- **6X Max. DVD-ROM Drive†**
- **Modular 3.5" FDD exchangeable with opt. LS-120 Drive, 2nd HDD or 2nd Battery**
- 256KB On-die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- 3D Surround Sound
- Smart Lithium-Ion Battery
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots
- Infra Red, Wireless Fast IR Interface
- 1 TV-Out Port & 1 Video-In Port
- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Deluxe Carrying Case
- Weight: 7.7 lbs with Battery
- 12.4"w x 10.1"d x 1.8"h
- Sager's Umbrella Protection Policy

$1995

NP2330e

- **14.1" XGA Active Matrix Display**
- **Intel® Celeron™ Processor 533MHz**
- **64MB SDRAM**
- **12.0GB Ultra DMA Hard Drive**
- **24X Max. CD-ROM Drive***
- **Modular 3.5" FDD exchangeable with opt. LS-120 Drive, 2nd HDD or 2nd Battery**
- 128KB On-die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- 3D Surround Sound
- Smart Lithium-Ion Battery
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots
- Infra Red, Wireless Fast IR Interface
- 1 TV-Out Port & 1 Video-In Port
- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Deluxe Carrying Case
- Weight: 7.7 lbs with Battery
- 12.4"w x 10.1"d x 1.8"h
- Sager's Umbrella Protection Policy

$1795

NP2330c

- **14.1" XGA Active Matrix Display**
- **Intel® Celeron™ Processor 500MHz**
- **64MB SDRAM**
- **6.0GB Ultra DMA Hard Drive**
- **24X Max. CD-ROM Drive***
- **Modular 3.5" FDD exchangeable with opt. LS-120 Drive, 2nd HDD or 2nd Battery**
- 128KB On-die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- 3D Surround Sound
- Smart Lithium-Ion Battery
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots
- Infra Red, Wireless Fast IR Interface
- 1 TV-Out Port & 1 Video-In Port
- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Deluxe Carrying Case
- Weight: 7.7 lbs with Battery
- 12.4"w x 10.1"d x 1.8"h
- Sager's Umbrella Protection Policy

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OPTIONS

- Car Adapter
- LS-120 Drive
- Port Replicator
- 2nd Hard Drive
- 3rd Hard Drive (NP2300)
- 2nd Battery (NP2300)
- 56K V.90 Modem^
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NP3360 Series
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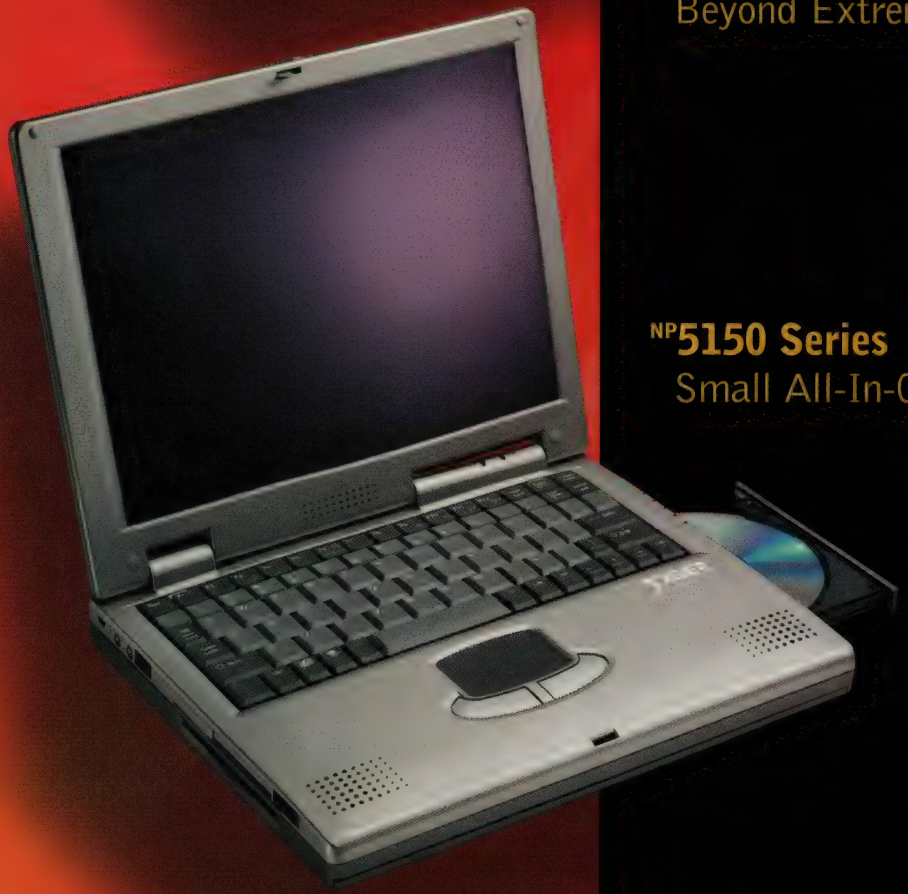

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Sager's NP3360 Beyond Extreme Series is a multimedia masterpiece. A sure winner of the Academy Award for best notebook featuring 6X Max. DVD-ROM and Software MPG II. Plus, you can choose your own winner for the role of best supporting Intel® processor, Intel® Pentium® III or Intel® Celeron™ processors. Last but not least, give a standing ovation to the wide range of display sizes available 14.1", 13.3" XGA or plug into the TV-out port of the thin attractive case 1.58" and really let the show begin. Sager's incredible NP5150 Small All-In-One Series notebooks offer the performance of an Intel® processor and multiple features all within one of the industry's smallest footprints. And, to top it all off, you can have this silver tone beauty for an amazingly small price.

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- **> 6X Max. DVD-ROM Drive†**
- **> Modular 3.5" FDD exchangeable with opt. LS-120 Drive or 2nd HDD**
- > 256KB On-Die L2 Cache
- > 2X AGP 8MB ATI Rage Pro 3D Video
- > 3D Surround Sound
- > Smart Lithium-Ion Battery
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots
- > Infra Red, Wireless Fast IR Interface
- > 1 TV-Out Port & 2 USB Ports
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > A4 Size Windows® 95 Keyboard
- > Microsoft® Windows® 98
- > Deluxe Carrying Case
- > Weight: 6.6 lbs with Battery
- > 12.4"w x 10.1"d x 1.58"h
- > Sager's Umbrella Protection Policy

$2245

NP3360i

- **> 14.1" XGA Active Matrix Display**
- **> Intel® Pentium® III Processor 600MHz**
- **> 64MB 100MHz SDRAM**
- **> 12.0GB Ultra DMA Hard Drive**
- **> 24X Max. CD-ROM Drive***
- **> Modular 3.5" FDD exchangeable with opt. LS-120 Drive or 2nd HDD**
- > 256KB On-Die L2 Cache
- > 2X AGP 8MB ATI Rage Pro 3D Video
- > 3D Surround Sound
- > Smart Lithium-Ion Battery
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots
- > Infra Red, Wireless Fast IR Interface
- > 1 TV-Out Port & 2 USB Ports
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > A4 Size Windows® 95 Keyboard
- > Microsoft® Windows® 98
- > Deluxe Carrying Case
- > Weight: 6.6 lbs with Battery
- > 12.4"w x 10.1"d x 1.58"h
- > Sager's Umbrella Protection Policy

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NP3360e

- **> 13.3" XGA Active Matrix Display**
- **> Intel® Pentium® III Processor 600MHz**
- **> 64MB 100MHz SDRAM**
- **> 6.0GB Ultra DMA Hard Drive**
- **> 6X Max. DVD-ROM Drive†**
- **> Modular 3.5" FDD exchangeable with opt. LS-120 Drive or 2nd HDD**
- > 256KB On-Die L2 Cache
- > 2X AGP 8MB ATI Rage Pro 3D Video
- > 3D Surround Sound
- > Smart Lithium-Ion Battery
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots
- > Infra Red, Wireless Fast IR Interface
- > 1 TV-Out Port & 2 USB Ports
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > A4 Size Windows® 95 Keyboard
- > Microsoft® Windows® 98
- > Deluxe Carrying Case
- > Weight: 6.6 lbs with Battery
- > 12.4"w x 10.1"d x 1.58"h
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NP3360c

- **> 13.3" XGA Active Matrix Display**
- **> Intel® Celeron™ Processor 500MHz**
- **> 64MB 100MHz SDRAM**
- **> 6.0GB Ultra DMA Hard Drive**
- **> 24X Max. CD-ROM Drive***
- **> Modular 3.5" FDD exchangeable with opt. LS-120 Drive or 2nd HDD**
- > 256KB On-Die L2 Cache
- > 2X AGP 8MB ATI Rage Pro 3D Video
- > 3D Surround Sound
- > Smart Lithium-Ion Battery
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots
- > Infra Red, Wireless Fast IR Interface
- > 1 TV-Out Port & 2 USB Ports
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > A4 Size Windows® 95 Keyboard
- > Microsoft® Windows® 98
- > Deluxe Carrying Case
- > Weight: 6.6 lbs with Battery
- > 12.4"w x 10.1"d x 1.58"h
- > Sager's Umbrella Protection Policy

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NP5150s

- **> 12.1" SVGA Active Matrix Display**
- **> Intel® Pentium® III Processor 500MHz**
- **> 64MB SDRAM**
- **> 6.0GB Ultra DMA Hard Drive**
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- > 3D Surround Sound
- > Smart Lithium-Ion Battery
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots
- > Infra Red, Wireless Fast IR Interface
- > 1 TV-Out Port
- > 1 Kensington Lock Port
- > Other Ports: USB, 1S, 1P, Ext. Keyboard and Ext. CRT
- > Windows® 95 Keyboard
- > Microsoft® Windows® 98
- > Deluxe Carrying Case
- > Weight: 6.5 lbs with Battery
- > 11.0"w x 9.4"d x 1.6"h
- > Sager's Umbrella Protection Policy

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NP5150e

- **> 12.1" SVGA Active Matrix Display**
- **> Intel® Celeron™ Processor 500MHz**
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- **> 6.0GB Ultra DMA Hard Drive**
- **> 24X Max. CD-ROM Drive***
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- > 3D Surround Sound
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- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots
- > Infra Red, Wireless Fast IR Interface
- > 1 TV-Out Port
- > 1 Kensington Lock Port
- > Other Ports: USB, 1S, 1P, Ext. Keyboard and Ext. CRT
- > Windows® 95 Keyboard
- > Microsoft® Windows® 98
- > Deluxe Carrying Case
- > Weight: 6.5 lbs with Battery
- > 11.0"w x 9.4"d x 1.6"h
- > Sager's Umbrella Protection Policy

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NP5150c

- **> 12.1" SVGA HPA Display**
- **> Intel® Celeron™ Processor 500MHz**
- **> 32MB SDRAM**
- **> 6.0GB Ultra DMA Hard Drive**
- **> 24X Max. CD-ROM Drive***
- **> The Smallest All-In-One Design**
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- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots
- > Infra Red, Wireless Fast IR Interface
- > 1 TV-Out Port
- > 1 Kensington Lock Port
- > Other Ports: USB, 1S, 1P, Ext. Keyboard and Ext. CRT
- > Windows® 95 Keyboard
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- > Deluxe Carrying Case
- > Weight: 6.5 lbs with Battery
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> 30-Day Money-Back Guarantee. If the equipment does not work as promised, or if you are not fully satisfied, we will issue a full refund upon the return of all original equipment.

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> 1-Year Parts and Labor Limited Warranty.

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15" .28 SVGA COLOR MONITOR

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733MHZ....$969	800MHZ.....$1119

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667 MHZ INTEL® PENTIUM® III PROCESSOR
128MB PC133MHz SDRAM
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56K V.90 FAX/MODEM W/VOICE
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10X VARIABLE DVD ROM
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667MHZ **$1219**

700MHZ.....$1279	733MHZ....$1299
800MHZ.....$1419	866MHZ.....$1599

UNITEDM3000

700MHZ INTEL® PENTIUM® III PROCESSOR
128MB PC133MHz SDRAM
20GB ULTRA ATA 66, 7200RPM HD
56K V.90 FAX/MODEM W/VOICE
Nvidia GeForce 256 32MB AGP 4X
10X VARIABLE DVD ROM
SOUND BLASTER 128 PCI PnP
ALTEC LANSING ACS33 SPEAKERS W/SUBWOOFER
Corel Office 2000: WordPerfect 9, QuattraPro 9, Corel Presentation 9, Trellix 2
17" .27 SVGA COLOR MONITOR PnP, 1280X1024

733MHZ.....$1309	*700MHZ* **$1299**
800MHZ.....$1449	866MHZ...$1629
933MHZ....$1829	1GHZ.....CALL!

UNITEDM4000

700MHZ INTEL® PENTIUM® III PROCESSOR
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56K V.90 FAX/MODEM W/VOICE
3DFX VOODOO5 5500 64MB 4X AGP
10X VARIABLE DVD ROM
SOUND BLASTER LIVE
ALTEC LANSING ACS33 SPEAKERS W/SUBWOOFER
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UNITEDM6000

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10.6GB ULTRA ATA 66 7200RPM HD
56K V.90 FAX/MODEM W/VOICE
56X CD ROM DRIVE
3D WAVETABLE STEREO SOUND
120WT SPEAKERS
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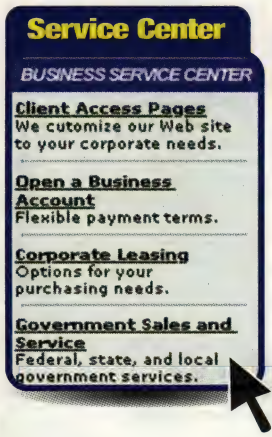
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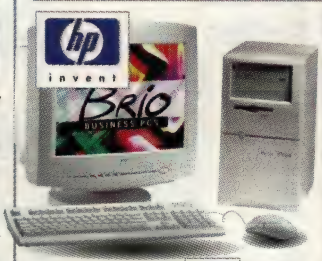

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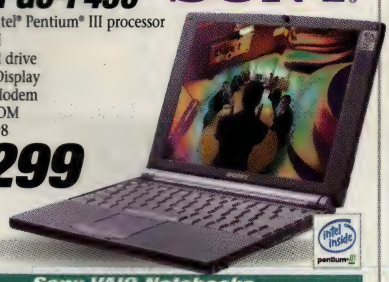

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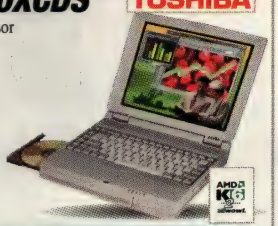

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*Windows 98

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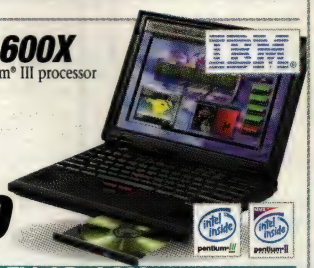

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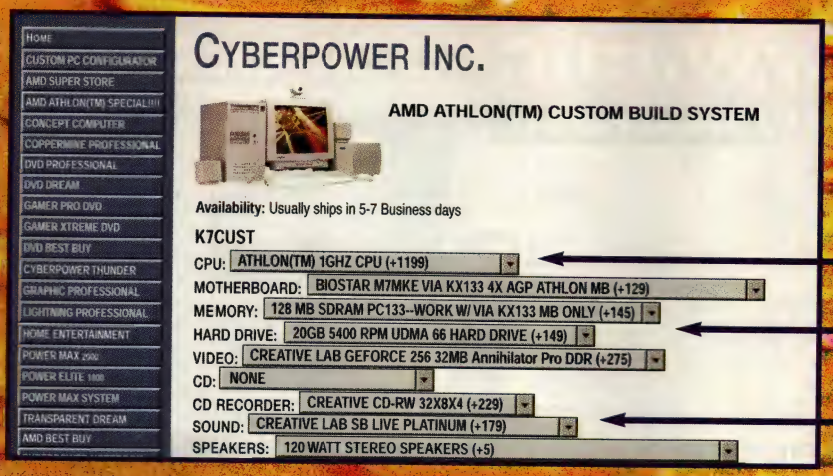
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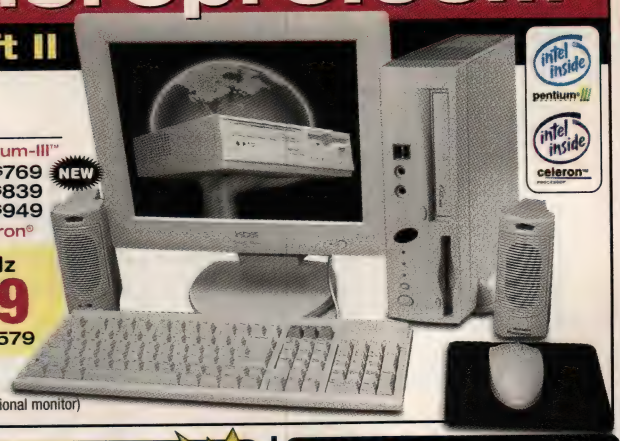

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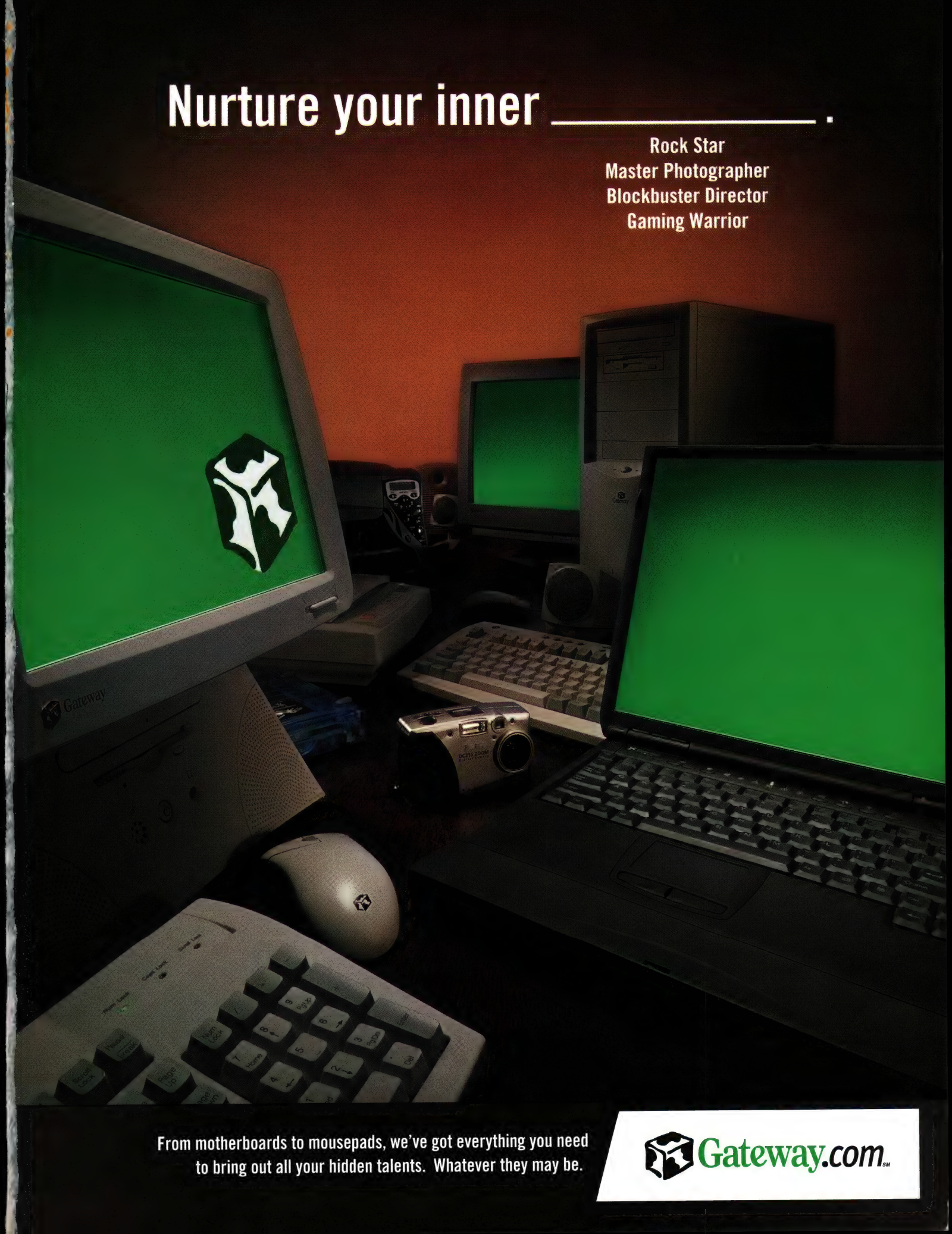
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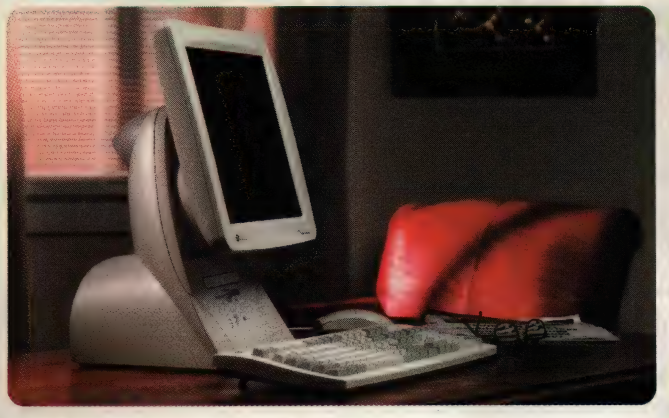

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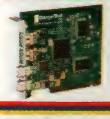

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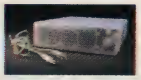

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It's Cool to Be Corporate

Corporate PC makers are holding a beauty pageant of sorts, trotting out slender new models and bragging about their talents. Sure, they're svelte and smart, but these PCs also have a practical side: They're designed to maximize system uptime and minimize the drain on IT resources.

Compaq Computer Corp. led the pack with its sleek iPaq system. (See "The Quest for the Best" in the Features section.) The rest of the industry, including companies like **IBM, Hewlett-Packard Co., NEC Corp.,** and **micronpc.com,** soon followed suit.

NEC has started shipping the PowerMate ES SlimLine PC, which is powered by **Intel's** Pentium III or Celeron processor and is half the size of typical desktops. "Advancements in component technologies have really eliminated the need for bulky systems," says Stacy Wu, NEC's director of product management.

HP's e-Vectra

Breakthroughs in networking technologies in particular have helped make these small systems possible. "Once vendors like **3Com** and Intel finalized standards, a number of PC vendors began integrating modems and LAN cards, further eliminating the need for add-on devices that take up space," Wu says.

HP has pursued a similar strategy with its sleek e-Vectra, which weighs only 8 pounds and can be mounted on a wall or under a desk to maximize cubicle space. The e-Vectra comes with an Intel Pentium III or Celeron processor, up to 256MB of SDRAM, an 8.4GB hard drive, and built-in Ethernet. Expansion options, intentionally limited on the e-Vectra, include a port-control system that enables IT managers to lock the unit's USB, serial, and parallel ports, thus preventing users from plugging in unauthorized peripherals.

Micronpc.com's space-saver is the ClientPro Cf. At 15 pounds, it's smaller than most PCs and can sit upright like a minitower or lay flat like a desktop. The system has no PCI or ISA slots, but the company opted to include a floppy drive.

And because you can never be too thin, IBM has gone a step further by eliminating the PC altogether. IBM's NetVista Zero-Footprint Thin Client, as the name suggests, has no desktop footprint. IBM accomplishes this by attaching one of its Network Station Series 2200 thin clients to the rear of a 15-inch IBM T55 flat-panel monitor, leaving only the display and keyboard visible. ***—Dan Costa***

The Top 10 PRODUCTS SOLD on computershopper.com in March 2000

(Ranking based on total initiated orders)

1	Palm IIIx	PDA
2	Epson Stylus Color 900	inkjet printer
3	Olympus C-2000 Zoom	camera
4	Nikon Coolpix 950	camera
5	HP PhotoSmart Photo Scanner	scanner
6	Canon BJC-2000	inkjet printer
7	HP LaserJet 4050	laser printer
8	HP Jornada 680	PDA
9	Canon BJC-1000	inkjet printer
10	Casio Cassiopeia E-100	PDA

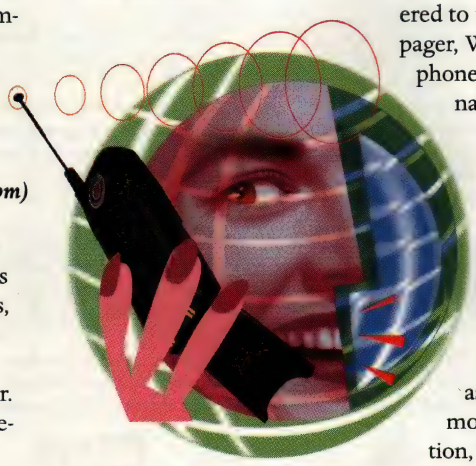
Source: Computer Shopper Executive Summary database, March 2000

TALKING WEB

Getting online is easy, as long as you have a computer and a modem. Now new services let you plumb the Web for information without a PC. All you need is a phone.

BeVocal ***(www.bevocal.com)*** and **Tellme Networks** ***(www.tellme.com)*** are a new breed of Internet companies called voice portal providers, which let you retrieve information from the Web via phone rather than a browser.

Using a proprietary voice-recognition engine called VocalBoost, BeVocal allows you to call a single toll-free number to access information and services such as stock quotes, real-time traffic reports, and point-to-point driving directions.



Callers are greeted with a voice menu and navigate further by using a series of voice commands. The service's computer asks questions and will repeat itself if necessary. The information is then delivered to the user by e-mail, pager, Web-enabled cell phone, or plain speech. Full nationwide service is expected by the end of this year.

In contrast, Tellme plans to launch its toll-free phone service nationwide in mid-May with more consumer-oriented services such as restaurant advice and movie listings. In addition, Tellme will be able to connect users to make reservations, purchase tickets, and eventually call for taxis.

—Xavier Niz and Lori Grunin

ILLUSTRATION BY WILLIAM RIESER

NET NOW

THIS WAR IS NO GAME

With **Sony's** upcoming PlayStation2 supporting DVD playback and **Microsoft Corp.** promising to fuel its X-Box with the power of a desktop PC, the video-game and PC industries are girding for serious battle.

The PlayStation2 will have the advantage of being the first to hit store shelves. The product, set to debut in the United States this fall, packs fire-breathing 128-bit graphics and works as a DVD and CD player. Starting in early 2001, PlayStation2 owners will be able to connect to select cable providers to download games and compete in multiplayer arenas.

The X-Box won't be available until fall of 2001, but it will deliver a substantial wallop when it appears. Its components will include an Intel Pentium III processor, 64MB of RAM, an 8GB hard drive, and a 4x DVD-ROM drive. To boost multimedia performance, **nVidia Corp.** is designing a custom 3D graphics processing unit (GPU) and a multimedia and communications processor chip set for the X-Box, and the Microsoft device will support positional audio processing and a proprietary A/V connection.

"The X-Box GPU is going to be generations ahead of the PlayStation2 both in power and features," says Michael Hara, nVidia's vice president of corporate marketing. Hara adds that nVidia can match the quality of the PlayStation2 today using current technology.

The distant debut of the X-Box could put it at a disadvantage, especially because the PlayStation2 will be able to build on an existing base of more than 75 million users of the original PlayStation. The platform also has the support of dozens of game developers and, because existing PlayStation games will work with PlayStation2, more than 100 games will be available to play at launch. The X-Box will have a lot of catching up to do.

The X-Box, however, may be able to draw support from PC game developers because it's a platform that many PC game publishers can immediately support. A number of developers, including **Acclaim Entertainment, Hasbro Interactive,** and **Infogrames,** have already agreed to release games for the X-Box platform.

Sony PlayStation2

—Dan Costa

Little Browser, Big Future

Phone.com is a big player in microbrowsers for Net-enabled cell phones. And the company, which had its start as **Unwired Planet,** is expanding further through its acquisition of firms like **Onebox.com, Paragon Software,** and **@Motion**. Ben Linder, Phone.com's vice president of marketing, discusses the future.

Q: *What will the mergers between telephony and the Internet bring?*
A: The mixing of voice and data in ways never before possible. For example, being able to read an e-mail on the screen of your phone and then answer it with a voice recording.
Q: *What will Net phones look like a year from now?*
A: Expect tiny phones, high-resolution color screens, full graphics. WAP will enable these phones to really shine as Internet devices.
Q: *What new capabilities will they offer?*
A: The ability to display color graphics, animations, and maps. Also, MP3 downloads will be possible.
Q: *Is Phone.com working to add voice recognition?*
A: We see voice recognition happening on a server in the network, not on the phone itself. This will open up a large array of new applications such as voice browsing, voice dialing, and voice PIMs.
Q: *What will result from the acquisition of Onebox.com?*
A: A new generation of voice-enabled Internet-based applications. In the move to the third generation of wireless networks, the intelligence in the network moves to IP-based applications. Phone.com is bringing IP-based voice applications to the market.
Q: *Do you believe the cell phone will supercede the handheld organizer?*
A: The cell phone will perform the killer apps: calendar, address book, e-mail, and to-do lists. Take a look at the Samsung 8500 (Sprint) or Sprint Touchpoint or Neopoint today.

—Rik Fairlie

Get a Lifestyle!

Whether you're a dude or a doyen, there's a lifestyle portal designed to match your demographics. Here are three generation-spanning examples.

—Brian Bennett

	www.bolt.com	www.foofoo.com	www.senior.com
Target User	Generation Y (14-to-24-year-olds)	Career-climbing professionals (30-to-50-year-olds)	The 50-something set (and older)
What's There	Bulletin boards and chat with real attitude and a serious sense of community, covering issues like sex, dating, style, and college life	Insightful features entwined with shopping suggestions for luxury items. Pop a cork and toast the good life!	A trove of great articles and links on subjects such as health, faith, cooking, money, and travel
Shopping Options	Beastie Boys Ts, snowboard and skate gear, inflatable furniture, high-tech headphones	Opulent travel packages, men's and women's apparel, even mail-order gourmet lobster dinners for two	Links to shopping sites include stocks, automobiles, food, clothing, golf. Also info on health plans, insurance
Cool Features	Free e-mail and voice-mail account, plus free ground shipping on all the stuff you buy, dude!	Daily quizzes, chat, and an image-association test that helps the site learn your tastes	Huge variety of chat rooms and forums, up to 20MB of free online storage, free e-mail

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- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
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- Weight: 6.6 lbs with Battery
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- Sager's Umbrella Protection Policy

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- 3.5" 1.44MB Floppy Disk Drive
- 3D Surround Sound
- NiMH Battery
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots
- Infra Red, Wireless Fast IR Interface
- 1 TV-Out Port
- Other Ports: USB, 1S, 1P, Ext. Keyboard and Ext. CRT
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Deluxe Carrying Case
- Weight: 7.2 lbs with Battery
- 12.2"w x 9.4"d x 1.7"h
- Sager's Umbrella Protection Policy

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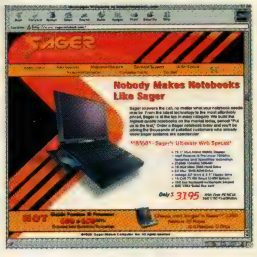
* - 10X Min. † - 2X Min. ^ - Maximum Transmission speed of up to 53Kps when downloading and 33.6Kps when uploading data. Actual speeds may vary depending on line conditions and current FCC restrictions.



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Imagine getting rid of your notebook *and* your cell phone, then hitting the road with a total communicator that's not much bigger than your Palm. According to **Symbian,** a joint venture between **Psion** and several major cellular-phone makers, that could happen sooner than you might think.

The company recently unveiled Quartz, a prototype for a wireless cell phone and Net-access device with a color screen. Partners Psion, **Motorola,** and **Ericsson** plan to turn this compelling concept into reality by next year.

The Quartz prototype is a tablet-shaped device with a quarter-VGA (320x420) color touch screen that's roughly the same size as a Pocket PC. It will be capable of handling phone calls, Web browsing, e-mail, faxes, and basic PIM apps, all based on the same Epoc operating system that drives Psion devices. A version with a larger half-VGA screen, code-named Crystal, is also in the works.

Unlike today's phones or the Palm VII, Quartz will be able to surf standard HTML Web pages in addition to content in the emerging Wireless Application Protocol (WAP) standard for smart phones.

Of course, the wireless Web space has plenty of competition, particularly from **Palm,** whose applications have already been licensed by Motorola and **Nokia.** But the Quartz platform's open-standard approach is one of its biggest strengths, says Symbian spokeswoman Hanna Sigge. "The flexibility of our platform means that our licensees can develop a whole range of different services," she says. And Symbian is also hedging its bets by discussing possible cross-licensing arrangements with Palm.

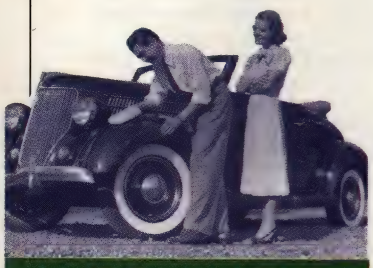
Motorola plans to launch a Quartz product by the second quarter of next year, and Ericsson should follow shortly thereafter. Nokia, **Panasonic**, and Psion are all developing products for the platform as well. In the future, when you hear a cell phone ring, take a good look—it could be the Web calling.

—Elaine Chen

A prototype of the Quartz device

Dot Gone?

The online honeymoon may be almost over. **Forrester Research** predicts that most of today's dot-com retailers will be out of business by the end of next year. The research firm says companies that were early successes online—purveyors of books, software, and flowers, for instance—will undergo consolidation this fall. Next, companies that sell "undifferentiated products" such as toys and consumer electronics at razor-thin margins will collapse by year's end. But Forrester says online merchants selling heavily branded, high-style products like apparel will remain stable through 2002.



AUTO-MATIC SAVINGS

Approximately 55 percent of Americans now use the Internet at some point in the car-buying process, and that figure is expected to rise to 80 percent within a few years. It's easy to see why: Car shoppers who use an online buying service save an average of $490 when they buy.

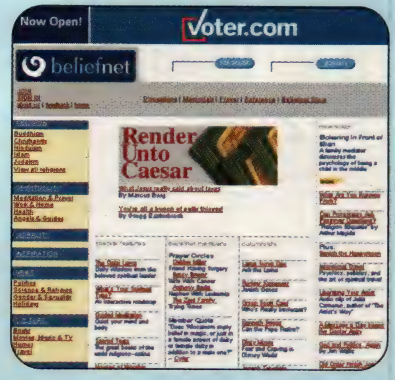
Source: J.D. Power & Associates

SEEKING SPIRITUALITY—AND SALES

Why did God kill off the dinosaurs? How can angels help you on the job? What's it like to participate in the annual Hajj pilgrimage to Mecca?

These are just some of the topics explored at **Beliefnet *(www.beliefnet.com)***, a new site that targets spirituality seekers with a foray into the emerging e-commerce market of faith.

Beliefnet is striving to be the one-stop shop for everyone, regardless of denomination, spirituality, morality, faith, or community. As you peruse the subsections of organized religions, you can also bring the goodness home with aromatherapy candles, Christian-rock CDs, high-octane green tea, herbs, books, yoga videos, and even natural dog food for your most faithful friends.



According to a Beliefnet spokesperson, the site's founders saw religion as an "opportunity." Based on a study that found most Americans do consider themselves religious but don't align themselves with a particular denomination, Beliefnet intends to fill that void with spiritual sense and services.

Although some people may find the concept hardly spiritual, Beliefnet does manage to strike a tasteful balance between the sacred and the commercial. Intelligent and thoughtful content from theologians and scholars on topics ranging from science and sex to faith and funerals frame a surprisingly well-stocked Web store.

With backing from high-profile venture-capital firms, as well as Internet names like **Ask Jeeves, eToys, Lycos, and MapQuest.com,** Beliefnet's founders hope to expand the business to travel services. With this capability in place at the site, rather than merely viewing a pilgrimage via the site's Webcam, travelers could arrange a real-life trip.

The idea is destined to spawn similar sites, as evidenced by another startup called **iBelieve.com,** which also targets truth-seekers and shoppers, and the **CatholicFamilies.net** ISP and portal service.

"Targeting a pre-existing community of like-minded individuals makes strategic sense," says Eric S. Jackson, an analyst with **Andersen Consulting.** "The trick is implementing the speed, scale, and customer attention to make the effort successful."

—Stephanie Izarek

SECTION CONTINUES ON PAGE 57

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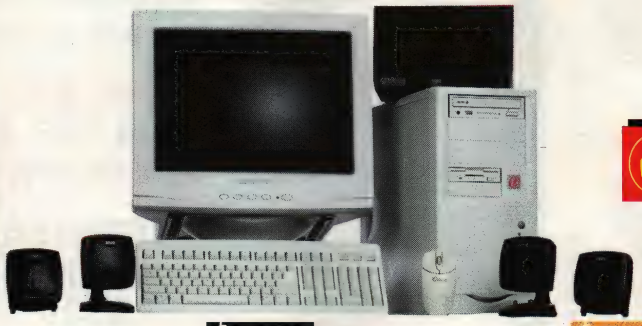

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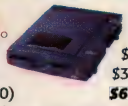

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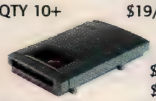

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FPD 1500 15.1" Digital LCD Display •
$2049

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Gateway@Work℠

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Ad Code: 001283

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NET NOW

Looking Good Online—And on You

It's always wise to try before you buy, especially when shopping for clothes. But what about shoppers who'd rather order those moleskin trousers online from **J.Crew** *(www.jcrew.com)*

than make a trip to the mall?

Until recently, you'd have to take your chances—and advantage of J.Crew's return policy—if they didn't look as good on you as they did online. That's starting to change, however, at least for women. Several companies have developed 3D models that enable shoppers to create virtual models of themselves, then "try on" apparel before they buy.

Public Technologies Multimedia, a software company, was first to hit the runway with its **My Virtual Model.** The technology lets users reproduce themselves in the form of 3D models that can be uncannily accurate, assuming that exact measurements are entered.

With the model, consumers can then try on clothing, test new styles, and mix and match accessories. The software also offers personalized fashion advice based on an individual's body type and lifestyle.

Public Technologies' 3D technology can be found on sites like **Lands' End** *(www.landsend.com)*, **J.C. Penney Co.** *(www.just4meplus.com)*, and **Les Boutiques San Francisco** *(www.bsf.ca)*.

Similarly, **Delta Galil,** an apparel manufacturer for retailers such as **Banana Republic, The Gap,** J.Crew, and **Victoria's Secret,** is working with the Internet firm **Browzwear** to develop a similar technology of the same name. Browzwear will enable shoppers to personalize a model and gauge the fit of wardrobe items. The company is currently in talks with its retailers to implement the technology.

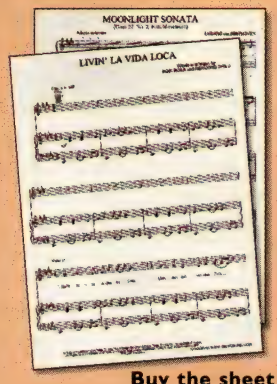
Despite the improved prepurchase experience, Fiona Swerdlow, a digital-commerce analyst with **Jupiter Communications,** warns that online sellers must still keep their eyes on customer service and order fulfillment. "They need to concentrate on the basics before getting caught up in the new whiz-bang stuff," she says.

—Stephanie Izarek

Music Making Made Easy

Dozens of Web sites let music fans download song lyrics, but now music makers have a great resource of their own. **Musicnotes** ***(www.musicnotes.com)*** is an online sheet-music warehouse that enables you to sample, purchase, download, and even listen to sheet music.

Musicnotes currently offers more than 6,000 sheet-music titles in a downloadable digital format. You can see, hear, and print a one-page sample of any digital piece in the library by simply downloading a small Musicnotes plug-in. If you prefer traditional printed music, you can order from among 200,000 pages.



Buy the sheet

The site is also a lot more flexible than traditional music stores. "You can find the one piece of music you need without buying the whole book," says Tim Iversen, director of production and development at Musicnotes. The site lets you search by title, lyrics, composer, keyword, arranger, artist/group, even by instrument. So whether you're looking for Ricky Martin's "Livin' La Vida Loca" or a few of Handel's fugues, the site makes it easy to find and buy sheet music of most any genre.

Prices are comparable to what you would pay in a traditional music store, roughly $5 for an individual piece. But the digital files provide something extra: After you buy the piece, you can select a note or a couple of bars with your cursor, and the selected music will play on your computer. Some files also support CD synchronization, so you can listen to Santana's "Supernatural" album and watch Carlos Santana's notes scroll by simultaneously.

—Dan Costa

Net Gains

Ma Bell is gone, but her people keep on giving. Former Bell Labs and Lucent Technologies scientists working at **AANetcom** have developed a processor that they say can dramatically boost the speed of the Internet backbone.

The backbone is the part of the Net that carries the major traffic between various local systems. It's analogous to a water main that carries all the water to a city's homes and businesses.

The company's new 1.56Gbps chip, the 21Z01 OctalPHY, aims to replace current 125MHz chips and should jolt performance by a factor of 10.

The new processor can be used to build scalable routers that can be expanded to keep up with the traffic growth. It's likely to find a place inside hardware from the likes of **Cisco Systems,** an investor in AANetcom.

These new routers should be more capable of accommodating the ever-increasing load of Internet traffic without slowing the network. And that makes it a boon to all computer users, consumer and corporate.

—John McCormick

VALUE LINE NOTEBOOKS

A sampling of notebook configurations and pricing based on ads in the April issue of *Computer Shopper*

Acer $999
400MHz Celeron, 32MB RAM, 12.1" DSTN display, 4.8GB hard drive, CD-ROM, 2MB VRAM, lithium-ion battery, 7 lbs.

Compaq $1,499
400MHz Celeron, 64MB RAM, 12.1" TFT display, 4.3GB hard drive, CD-ROM, 2MB VRAM, lithium-ion battery, 5 lbs.

Dell $2,199
450MHz Celeron, 64MB RAM, 15" TFT display, 6GB hard drive, CD-ROM, 8MB VRAM, lithium-ion battery, 7.5 lbs.

Quantex $2,999
650MHz Pentium III, 128MB RAM, 15" TFT display, 18GB hard drive, DVD, 8MB VRAM, lithium-ion battery, TV-out, 7 lbs.

$500 | $1,000 | $1,500 | $2,000 | $2,500 | $3,000 | $3,500 | $4,000

Sager $1,195
466MHz Celeron, 32MB RAM, 12.1" DSTN display, 4GB hard drive, CD-ROM, 4MB VRAM, NiMH battery, 6.5 lbs.

HP $1,699
475MHz K6-2, 64MB RAM, 12.1" TFT display, 6GB hard drive, DVD-ROM, lithium-ion battery, 6.7 lbs.

Sony $2,399
450MHz Pentium III, 64MB RAM, 14.1" TFT display, 6GB hard drive, DVD-ROM, 2MB VRAM, lithium-ion battery, 7 lbs.

Gateway $3,699
600MHz Pentium III, 96MB RAM, 15.7" TFT display, 12GB hard drive, DVD-ROM, 8MB VRAM, lithium-ion battery, 8.6 lbs.

Source: Computer Shopper *Leading Brand Index, April 2000*

ILLUSTRATION BY WILLIAM RIESER

B2B BUZZ

Marketing à la Carte

Lynda Partner and Teri Dahlbeck are not techheads—they're marketing people. Their frustration with technology led them to form **GotMarketing.com,** a browser-based service that provides marketing tools to small businesses.

The site's most popular feature is a $100-per-month clipping service. Dubbed InfoWatch, it helps you gather articles about your company, your partners, and your competitors.

The site also lets you manage an e-mail campaign through which you can send personalized messages to each recipient on your distribution list. Reports reveal how many messages bounced back and how many were received, as well as how many recipients requested future e-mails and how many opted out. The campaign, which costs $400 per month, takes 3 minutes to set up with your browser, according to Partner, chief executive of GotMarketing.com.

Another feature, GotUniversity, offers courses in online marketing. Students choose either audio or video formats and can interact with instructors via live chat or telephone. Fees range from free to $1,000, depending on the credentials of the instructor. "If the instructor is someone of the caliber of industry luminary Esther Dyson, the course would command a premium price," explains Partner.

In June, the company will add a service for gauging the results of e-mail, public-relations campaigns, and banner ads. "You'll know the sources that drove visitors to your site, whether they got the information they were looking for and if they acted on it, and whether they submitted their e-mail addresses for more information," says Partner. The fee for the monthly subscription-based service was yet to be determined.

—Nancy A. Lang

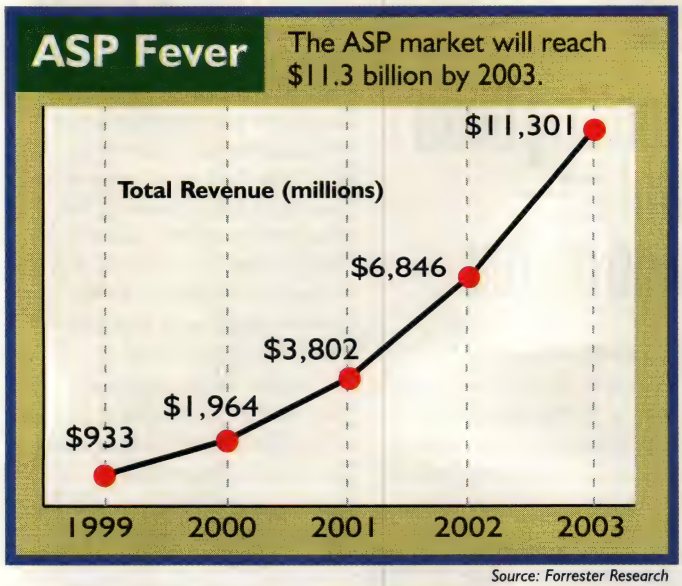
A Dearth of Dot-Coms

All the good dot-coms are taken, and the dot-net and dot-org domain-name pickings are slim.

If you just have to have your company name as your domain name, look to the Republic of Tonga, or Western Samoa, for that matter. In fact, every landfall from Ascension Island (.ac) to Zimbabwe (.zw) has an international country code that can serve as a domain-name suffix, or top-level domain (TLD). You needn't worry about the distance to these remote outposts because their servers might be just around the corner—or in downtown San Francisco if your TLD is ".to" (Tonga).

The Republic of Tonga was the first to encourage nonresidents to take advantage of its code, followed by the Cocos Islands (.cc) and most recently, Western Samoa (.ws). Check out Domain Name Registries Around the World at ***www.uninett.no/navn/domreg.html*** for other possibilities. Then click on any code to get an idea of how accessible it is.

—John Woram



Source: Forrester Research

Living, Breathing Web Support

At first, consumers loved e-commerce because it saved them from having to talk to someone to place an order. Now, they're frustrated because they can't talk to anyone when they have a problem or questions.

The solution is eCRM, an acronym for electronic customer-relationship management, which a number of companies now offer to e-businesses.

One early entry is **eConvergent** ***(www.econvergent.com)***. The company's CRMS offering encompasses a collection of services, including a database of customer information (CRM); the tools to analyze it (E.piphany); an e-mail response system; telephony; and Web-based live chat, form pushing, and form filling.

The service is available in three price structures. Plan one offers CRM, e-mail, and the Web service for a $95,000 setup fee and $995 per seat, per month. The second adds telephony for $150,000 and $995 per seat, and the third offers all of the above plus E.piphany for $150,000 and $2,495 per seat.

It's not cheap, but neither is the alternative of inadequate customer service. **Andersen Consulting** figures reveal 88 percent of online orders are abandoned at the shopping-cart stage, and **Jupiter Communications** research indicates companies can boost profits by almost 100 percent by retaining just 5 percent more customers.

eConvergent
Satisfaction is Success
eConvergent - A New Approach to Customer Relationships
...click here to find out more

Other contenders for your customer-service solutions include **WebTelecom** ***(www.webtele.com)***, which at press time was offering a free 90-day trial, and **LivePerson** ***(www.liveperson.com)***.

—N.A.L.

Prices go down as more people buy.

ZDNet's Group Buying, powered by MobShop.

Save big on the items you want the most with ZDNet's Group Buying, powered by MobShop.

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www.zdnet.com/groupbuying

POWERED BY mobshop

HOT GEAR

the Stuff you want

See more...

ZDNet Equip
Field guide to the DIGITAL AGE

go to equip.com

home photo lab

Remember when getting your photos printed in an hour qualified as immediate gratification? Try 85 seconds. That's how long it takes the sleek-looking, small-footprint Sony UP-DP10 Digital Photo Printer to churn out lab-quality photos printed directly from your computer. The $389 device connects through a parallel or USB port and employs a dye-sublimation process to produce borderless, laminated 4x6-inch photos. Blank photo paper costs about $15 for 25 prints.

Sony UP-DP10 Digital Photo Printer
Sony Electronics
Park Ridge, NJ; 800-686-7669
www.sony.com/digitalphotography

MP3 on deck

MP3 players come in all shapes and sizes, and many manufacturers throw in an optional adapter that lets you play digital music files in a cassette deck. But the $249.95 Rome MP3 player is both a stand-alone MP3 player and an adapter itself. This cassette-shaped player downloads MP3 files from a PC through the parallel port. It features a headphone jack and play, pause, and navigational buttons for portable use. Pop it into your car's cassette deck so everyone can hear!

Rome MP3 Player
Rome MP3
Newhall, CA; 800-999-2734
www.romemp3.com

a worldly phone

Listen up, globe-trotters: The $500 Nokia 8890 operates on both GSM 900 and 1900 bands in more than 120 countries around the world. This 3.2-ounce dual-band dynamo looks pretty sharp, too, thanks to its icy blue brushed-metal finish. The 8890 supports advanced features such as voice dialing, infrared data transfer with compatible phones and PCs, and predictive data input. It delivers up to 3 hours and 20 minutes of talk time and up to 6 days of standby time on a single charge.

Nokia 8890
Nokia
Irving, TX; 888-665-4228
www.nokiausa.com

mail machine

Here's a one-stop mail room: The $229.95 LabelWriter EL60 from Dymo-CoStar can spit out labels and Internet e-stamps. This snazzy-looking, small-footprint device pumps out 12 labels per minute and includes labeling software with more than 40 predefined templates. Its software integrates with big-name contact managers like Act, GoldMine, and Outlook. Better yet, its links with Stamps.com and E-Stamp make for effortless purchasing and printing of encrypted bar-coded stamps.

Dymo-CoStar LabelWriter EL60
Dymo-CoStar Corp.
Greenwich, CT; 800-426-7827
www.dymo.com/labelwriter

expand your handheld

Mobile execs will get a bad case of gadget lust when they see Compaq's new iPaq Pocket PC, a $499 Pocket PC-based handheld that can be easily expanded with specially designed modular "jackets." The 6-ounce device has a color TFT display, 32MB of memory, and a stylish navigator button that doubles as a decent-sounding speaker. It supports voice recording and MP3 files, and if that's not enough, you can add expansion modules like the CompactFlash card and PC Card packs. Later, expect to see an add-on module that morphs the iPaq Pocket PC into a cell phone.

Compaq iPaq Pocket PC
Compaq Computer Corp.
Houston, TX; 800-345-1518
www.compaq.com

skinny scanner

At a waiflike 10 ounces and 1.25 inches, the $159 TravelScan 600 from OliVision is the most portable sheetfed color scanner on the market. This skinny scanner supports 24- and 32-bit color settings, as well as Photo and OCR modes. It can handle sheets as large as 8.5x14 inches, rendering images at 300x600 pixels. Best of all, the TravelScan connects via a standard Type II PC Card connector and draws its power from your notebook, which means you won't have to haul around an AC adapter brick.

OliVision TravelScan 600
OliVision
San Clemente, CA; 800-381-1222
www.olivision.com

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- S3 Trio 2X DVD 3D 8MB
- Motorola PCI 56K V.90 Voice Modem
- **Yamaha** 128V PCI 3D Wavetable
  Upgrade to Trident 4D 4-Channel for $19
- MLI 120W PMPO Speakers

KS6000

AMD™ K6-2 Processor at 500 MHz	$509 A1601
AMD™ K6-2 3D Now Processor	
550 MHz	$539 A1602
AMD™ Athlon Processor	
650 MHz	$679 A1603
700 MHz	$709 A1604
750 MHz	$769 A1605
800 MHz	$859 A1606
850 MHz	$969 A1607
900 MHz	$1,139 A1608
950 MHz	$1,289 A1609
1000 MHz	$1,659 A1610

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- 20 GB **UDMA-66** Hard Drive
- 50X CD ROM
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- Motorola PCI 56K V.90 Voice Modem
- **Aureal Vortex PCI 256V 3D Wavetable**
- MLI 120W PMPO Speakers
  Upgrade to 450W Spkrs w/Subwoofer for $19

KS8000

AMD Athlon™ Processor at 700 MHz	$759 A2604
AMD™ K6-2 3D Now Processor	
500 MHz	$559 A2601
550 MHz	$589 A2602
AMD™ Athlon Processor	
650 MHz	$729 A2603
750 MHz	$809 A2605
800 MHz	$899 A2606
850 MHz	$1,019 A2607
900 MHz	$1,189 A2608
950 MHz	$1,329 A2609
1000 MHz	$1,699 A2610

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- **Aureal Vortex** PCI **256V** 3D Wavetable
- MLI-460 **450W Speakers w/Subwoofer**

PS6000

AMD Athlon™ Processor at 650 MHz	$809 A3603
AMD™ K6-2 3D Now Processor	
500 MHz	$639 A3601
550 MHz	$669 A3602
AMD™ Athlon Processor	
700 MHz	$839 A3604
750 MHz	$899 A3605
800 MHz	$979 A3606
850 MHz	$1,099 A3607
900 MHz	$1,269 A3608
950 MHz	$1,409 A3609
1000 MHz	$1,779 A3610

- Soyo 5EMA+ w/1MB Motherboard OR (K6-2)
  VIA KX133 PC-133/4X AGP Motherboard (Athlon)
- 200MHz FSB and UDMA-66 Support (Athlon)
- 128MB SDRAM
- 30 GB **UDMA-66** Hard Drive
  Upgrade to 30 GB UDMA-66 7200 rpm for $39
- 50X CD ROM
- Nvidia GEFORCE 256 DVD 3D 32MB
- Motorola PCI 56K V.90 Voice Modem
- Creative Labs Sound Blaster Live Value
- MLI-747 4-CH Speakers w/Subwoofer

PS8000

AMD™ K6-2 Processor at 550 MHz	$839 A4602
AMD™ K6-2 3D Now Processor	
500 MHz	$809 A4601
AMD™ Athlon Processor	
650 MHz	$979 A4603
700 MHz	$1,009 A4604
750 MHz	$1,069 A4605
800 MHz	$1,149 A4606
850 MHz	$1,269 A4607
900 MHz	$1,439 A4608
950 MHz	$1,579 A4609
1000 MHz	$1,949 A4610

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TFT LCD
1024 x 768 @ 70Hz
Digital Flat Panel

ST15B $899

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TFT LCD
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BT15+ $799

19" Flat Square CRT
.26 Dot Pitch
1600 x 1200 @ 76Hz

D98A $295

17" Flat Square Tube
.27 Dot Pitch
1280 x 1024 @ 60Hz

D73P $185

15" Non Glare,
Flat Screen CRT
.28 Dot Pitch
1024 x 768 @ 65Hz

D50X $125

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  Add CD Re-writtable 8X4X32 for $239
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  Upgrade to GEFORCE 256 32MB for $99
- Motorola PCI 56K V.90 Voice Modem
- **Aureal Vortex PCI 256V 3D Wavetable**
- MLI-460 450W **Speakers w/Subwoofer**

AS6000

AMD Athlon™ Processor at 700 MHz	$889 A5602
650 MHz	$859 A5601
750 MHz	$939 A5603
800 MHz	$1,029 A5604
850 MHz	$1,139 A5605
900 MHz	$1,309 A5606
950 MHz	$1,459 A5607
1000 MHz	$1,829 A5608

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- **200MHz FSB and UDMA-66 Support**
- 128MB SDRAM
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  Add Iomega 250MB ZIP for $125
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- Motorola PCI 56K V.90 Voice Modem
- **SoundBlaster 128V** PCI 3D Wavetable
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  Upgrade to Microsoft Internet KB for $20
- **Microsoft Intelli Mouse** w/Wheel

AS8000

AMD Athlon™ Processor at 800 MHz	$1,299 A6604
650 MHz	$1,129 A6601
700 MHz	$1,159 A6602
750 MHz	$1,209 A6603
850 MHz	$1,409 A6605
900 MHz	$1,589 A6606
950 MHz	$1,729 A6607
1000 MHz	$2,099 A6608

- **VIA KX133 PC-133/4X AGP Motherboard**
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- 30 GB **UDMA-66** 7200 RPM Hard Drive
- 10X DVD-ROM
- **Nvidia GEFORCE 256 3D DVD 32MB**
  Upgrade to GEFORCE DDR w/TV Out for $99
- **US Robotics PCI 56K V.90 Voice Modem**
- **Creative SoundBlaster Live Value**
- **Altec Lansing ACS-54 4-Ch** Spkrs w/Subwoofer
- **Multimedia Windows 98 Keyboard**
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- **Full Tower case w/300W Power Supply**

AS9800

AMD Athlon™ Processor at 1000 MHz	$2,309 A7508
650 MHz	$1,339 A7501
700 MHz	$1,369 A7502
750 MHz	$1,429 A7503
800 MHz	$1,509 A7504
850 MHz	$1,629 A7505
900 MHz	$1,799 A7506
950 MHz	$1,939 A7507

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nVIDIA graphics

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  Add TV Output Port for $29
- MLI 120W PMPO Speakers

FS3000

Intel Celeron® Processor at 500 MHz — $509 S1601

Intel Celeron® Processor	
533 MHz	$529 S1602
566 MHz	$539 S1603
600 MHz	$559 S1604
Intel Pentium® III Coppermine Processor	
650 MHz	$639 S1605
700 MHz	$689 S1606
750 MHz	$799 S1607
800 MHz	$849 S1608

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- 50X CD ROM
- Nvidia RIVA TNT2 Vanta DVD 3D 16MB
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- Motorola PCI 56K V.90 Voice Modem
- Yamaha 128V PCI 3D Wavetable
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CS6000

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Intel Pentium® III Coppermine Processor	
667 MHz	$709 S2605
700 MHz	$769 S2606
733 MHz	$779 S2607
750 MHz	$869 S2608
800 MHz	$929 S2609
850 MHz	$1,099 S2610
Intel Celeron® Processor	
500 MHz	$579 S2601
566 MHz	$609 S2603
600 MHz	$639 S2604

- Intel Coppermine Ready Motherboard
- 133MHz FSB and UDMA 66 Support
- 20 GB UDMA-66 Hard Drive
- 128MB SDRAM
- 30 GB UDMA-66 Hard Drive
- 50X CD ROM
- Nvidia GEFORCE DDR 3D DVD 32MB w/TV Out
- Motorola PCI 56K V.90 Voice Modem
- Aureal Vortex PCI 256V 3D Wavetable
  Upgrade to SoundBlaster Live Value for $39
- MLI-460 450W Speakers w/Subwoofer

CS9000

Pentium® III Coppermine at 700 MHz — $969 S3606

Intel Pentium® III Coppermine Processor	
667 MHz	$919 S3605
733 MHz	$979 S3607
750 MHz	$1,079 S3608
800 MHz	$1,129 S3609
850 MHz	$1,299 S3610
Intel Celeron® Processor	
500 MHz	$799 S3601
533 MHz	$809 S3602
566 MHz	$819 S3603
600 MHz	$839 S3604

See what the experts from computer shopper said about our systems:

Best Buy

Mr. Bill O'Brien, January 2000

"Sweet deals are made of this: The AS9800. This 700MHz Athlon-based system is configured to blast away the competition with no compromises at a take-no-prisoners price"

Mr. Mitt Jones, November 1999

"...A tower of raw power..., Atlas Micro's 600Mhz Pentium III system targets users looking for speed, flexibility, and an affordable price...The Atlas Micro GS9000 is a good choice for buyers who want plenty of hardware at an attractive price."

All Atlas Micro PCs include: 3.5" 1.44MB Diskette Drive, Jr. Medium ATX Case, Windows 98 SE Pre-Installed w/CD & Manual, Lotus Smart Suite, Windows 98 Keyboard, 3-Button Scrolling Internet Mouse, Deluxe Stand-up Microphone, 3-Year Parts and Labor Warranty, Life Time Toll-Free Technical Support.

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Performance PCs at an affordable Price

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- 133MHz FSB and UDMA 66 Support
- 128MB SDRAM
- 20 GB UDMA-66 Hard Drive
- 50X CD ROM
  Add Iomega 100MB ZIP for $85
- Nvidia RIVA TNT2 Vanta DVD 3D 16MB
- Motorola PCI 56K V.90 Voice Modem
- Aureal Vortex PCI 256V 3D Wavetable
- MLI-460 450W Speakers w/Subwoofer

MS8000

- Intel Coppermine Ready Motherboard
- 133MHz FSB and UDMA 66 Support
- 256MB SDRAM
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  Upgrade to GEFORCE 256 32MB for $89
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- MLI-747 4-CH Speakers w/Subwoofer

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- SoundBlaster Live Value
- MLI-747 4-CH Speakers w/Subwoofer
- Multimedia Windows 98 Keyboard
- Microsoft Intelli Mouse w/Wheel

GS8000

- Asus P3BF Motherboard
- 128MB SDRAM
- 30 GB UDMA-66 7200 RPM Hard Drive
- 10X DVD-ROM
  Add CD-Rewrittable 8X4X32 for $239
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- Microsoft Intelli Mouse w/Wheel
- 300 Watt Power Supply

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Intel Pentium® III Coppermine Processor	
667 MHz	$779 S4605
733 MHz	$849 S4607
750 MHz	$939 S4606
800 MHz	$999 S4609
850 MHz	$1,169 S4610
Intel Celeron® Processor	
500 MHz	$659 S4601
533 MHz	$679 S4602
566 MHz	$689 S4603
600 MHz	$709 S4604

Pentium® III Coppermine at 667 MHz — $959 S5505

Intel Pentium® III Coppermine Processor	
700 MHz	$1,009 S5606
733 MHz	$1,019 S5607
750 MHz	$1,109 S5608
800 MHz	$1,169 S5609
850 MHz	$1,339 S5610
Intel Celeron® Processor	
500 MHz	$839 S5601
533 MHz	$849 S5602
566 MHz	$859 S5603
600 MHz	$879 S5604

Intel Celeron® Processor at 600 MHz — $999 S6604

Intel Pentium® III Coppermine Processor	
667 MHz	$1,079 S6605
700 MHz	$1,129 S6606
733 MHz	$1,139 S6607
750 MHz	$1,239 S6608
800 MHz	$1,289 S6609
850 MHz	$1,459 S6610
Intel Celeron® Processor	
500 MHz	$959 S6601
533 MHz	$969 S6602
566 MHz	$979 S6603

Pentium® III Coppermine at 667 MHz — $1,329 S7601

Intel Pentium® III Coppermine Processor	
700 MHz	$1,379 S7602
750 MHz	$1,479 S7603
800 MHz	$1,539 S7604
850 MHz	$1,709 S7605

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HOT GEAR

go in the know

If Hansel and Gretel had carried a $349.99 Magellan Map 410 handheld GPS navigation system with them instead of bread crumbs, the Brothers Grimm would have had one less story to tell. With a built-in world map and detailed atlas of the Americas, which includes cities, highways, and natural landmarks as well as nautical navigation aids, the Map 410 keeps you in the know about where you are and where you're headed. It features a 240x120-pixel display and lets you insert 1,200 digital trackpoints so you can retrace your travels.

Magellan Map 410
Magellan Corp.
San Dimas, CA; 800-669-4477
www.magellangps.com

cyber servant

If you want a gadget that earns its keep, sign up the $845 Probotics Cye-sr, a sound-activated wireless robot that can be used to vacuum the floor or cart a tray of munchies from kitchen to living room. Clap once, and the little 7-pound guy beeps to let you know you've gotten his attention. Then you can enter a string of claps to send Cye-sr to various points in your home. You also can control the robot with your PC and an optional antenna that sends your commands to him wirelessly. A cordless vacuum and a wagon attachment are sold separately. You can even crank up the music and watch Cye-sr dance!

Probotics Cye-sr
Probotics
Pittsburgh, PA; 888-550-7658
www.probotics.com

lap stand

For many users, laptops don't really live up to their name—particularly when they slide off your lap and crash to the floor. Fortunately, furniture maker Herman Miller has a nifty solution for you, the $275 Scooter Stand. It's a wooden platform on a steel armature that you can adjust to fit just under the arms of your chair for maximum ergonomics. And if the Scooter does not fit your needs, check out the company's beautifully designed Web site for all sorts of other ergonomic computer furniture.

Herman Miller Scooter Stand
Herman Miller
Zeeland, MI; 888-520-7646
www.hermanmiller.com

SECTION CONTINUES ON PAGE 69

intel inside
pentium® III

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pentium® III

DELL™ NOTEBOOKS

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BUSINESS LEASE: $50/MO., 36 MOS.††

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BUSINESS LEASE: $23/MO., 36 MOS.††

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- MS® Windows® 98 & MS® Works Suite 2000 and Norton AntiVirus™ 2000
- 3-Yr Ltd. Warranty,[2] 1-Yr NBD On-site Service[3]
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$699 E-VALUE CODE 05805-590506

BUSINESS LEASE: $23/MO., 36 MOS.
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- FREE Monitor Upgrade Valid Through 5/31/00

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- 15" (13.8" vis) E550 Monitor
- Intel® 3D AGP Graphics, 40X Max CD-ROM
- MS® Windows® 98 & MS® Works Suite 2000 and Norton AntiVirus™ 2000
- 3-Yr Ltd. Warranty,[2] 1-Yr NBD On-site Service[3]
- FREE Upgrade to17" (16.0" vis) E770 Monitor

$799 E-VALUE CODE 05805-590507

BUSINESS LEASE: $27/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS"

- FREE Monitor Upgrade Valid Through 5/31/00

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Network-Optimized Managed PC

- Intel® Pentium® III Processor at 600EB MHz
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BUSINESS LEASE: $33/MO., 36 MOS.
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DELL™ POWEREDGE™ 1300

Affordable Entry Level Server

- Intel® Pentium® III Processor at 550MHz (up to 800MHz)
- Dual Processor/RAID Capable
- 64MB 100MHz ECC SDRAM (up to 1GB)
- 9GB[5] 7200 RPM Ultra-2/LVD SCSI HD (up to 36GB[5])
- 108GB Internal Storage Capacity
- NIC & Integrated SCSI Controllers; 40X Max CD-ROM
- Dell's OpenManage™ Server Management Solutions
- 3-Yr Next-Business-Day On-site Service[3]; 7x24 Phone Support

$1599 E-VALUE CODE 05805-290515

BUSINESS LEASE: $54/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS"

- Small Business Upgrade Bundle, add $1897
- Second Intel® Pentium® III Processor at 550MHz, add $599

DELL™ POWEREDGE™ 2400

Workgroup Server

- Intel® Pentium® III Processor at 533MHz (up to 867MHz)
- Dual Processor Capable
- 64MB 133MHz ECC SDRAM (up to 2GB)
- 9GB[5] 7200 RPM Ultra-2/LVD SCSI HD (up to 36GB[5])
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- Dell's OpenManage™ Server Management Solutions
- 3-Yr Next-Business-Day On-site Service[3]; 7x24 Phone Support

$2699 E-VALUE CODE 05805-290526

BUSINESS LEASE: $90/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS"

- Single-channel RAID with 64MB Cache, add $299
- Microsoft® Windows® 2000 Server, add $799

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- Intel® Pentium® III Processor at 733MHz (up to 866MHz)
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- MS® Windows NT® Workstation 4.0
- 3-Yr Next-Business-Day On-site Service[3]
- 7x24 Dedicated Workstation Phone Tech Support

$2289 E-VALUE CODE 05805-490522

BUSINESS LEASE: $77/MO., 36 MOS.
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NEW Design and Affordability Notebook

- Intel® Celeron™ Processor at 450MHz
- 12.1" SVGA Active Matrix Display
- 32MB SDRAM, 4.8GB[5] Ultra ATA HD
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- 2X AGP 8MB ATI RAGE Mobility™-P 3D Video
- NEW Microsoft® Works Suite 2000
- Microsoft® Windows® 98, Second Edition
- 1-Yr Next-Business-Day On-site Service[3]

$1499 E-VALUE CODE 05805-890514

BUSINESS LEASE: $50/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS"

- 3-Yr NBD On-site Service[3], add $149

DELL™ INSPIRON™ 5000

NEW Performance and Mobility Notebook

- Intel® Celeron™ Processor at 500MHz
- 15" XGA Active Matrix Display
- 32MB SDRAM, 6.0GB[5] Ultra ATA HD
- Modular 24X Max Variable CD-ROM/Floppy Drive
- 2X AGP 4MB ATI RAGE Mobility™-P 3D Video
- 52WHr Lithium Ion Battery
- Microsoft® Office 2000 Small Business
- Microsoft® Windows® 98, Second Edition
- 3-Yr Next-Business-Day On-site Service[3]

$1999 E-VALUE CODE 05805-890519

BUSINESS LEASE: $67/MO., 36 MOS.
NO MONEY DOWN, NO PAYMENTS FOR 30 DAYS"

- Intel® Pentium® III Processor at 650MHz, add $400

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Network-Optimized Notebook

- Intel® Celeron™ Processor at 450MHz
- 12.1" SVGA Active Matrix Display
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$1589 E-VALUE CODE 05805-790515

BUSINESS LEASE: $53/MO., 36 MOS.
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HOT GEAR

pixels aplenty

Photo enthusiasts and business pros will like what they see in the $999 **PhotoPC 3000Z**, Epson's new 3.3-megapixel digicam. It snaps photos at resolutions as high as 2,544x1,904 pixels in your choice of seven picture modes, including macro and panorama. You'll also find a 25-second video-clip option. The 3000Z features built-in flash, an optical viewfinder, a 1.8-inch LCD panel, a speaker and microphone, and a self-timer. This versatile cam also lets you attach optional lenses and upload your images to your PC through a USB or serial connection.

Epson PhotoPC 3000Z
Epson America
Long Beach, CA; 800-463-7766
www.epson.com

laptop lockdown

From Kryptonite Corp., purveyors of the ubiquitous bicycle U-lock, comes serious laptop security, the $79.95 **KryptoVault**. This heavy-duty, three-bar steel cage, which attaches directly to a tabletop via a seven-pin lock mechanism, prevents thieves from opening, much less stealing, your notebook. The KryptoVault ships with an 8mm braided steel cable for use when away from the permanent anchor and comes with a lifetime warranty, 24-hour key replacement, and a $500 antitheft guarantee.

Kryptonite KryptoVault
Kryptonite Corp.
Canton, MA; 800-729-5625
www.kryptonitelock.com

like it loud?

Tired of the mediocre sound peeping from your PC? Crank it up with the $499 **Yamaha @ PET RP-U100**, an audio receiver specifically designed to work with a home computer. With its digital inputs and outputs, the RP-U100 bypasses your PC's sound card and processes the audio itself, delivering a wall-shaking 30 watts per channel. It has four inputs, a nine-band graphic equalizer, and six user-customizable DSP modes for realistic surround sound. It also supports up to 200 radio-station presets.

Yamaha @ PET RP-U100
Yamaha Electronics Corp., U.S.A.
Buena Park, CA; 800-492-6242
www.yamaha.com

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Magellan Map 410	24954
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OliVision TravelScan 600	24956
Probotics Cye-sr	24957
Rome MP3 Player	24958
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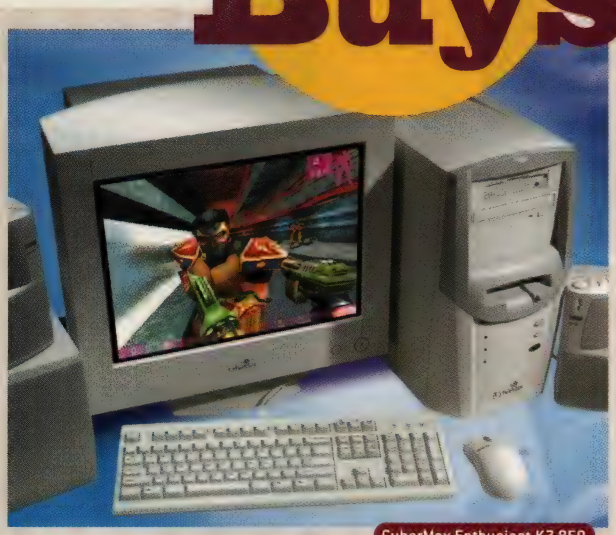


CyberMax Enthusiast K7-850

DESKTOPS

CyberMax Enthusiast K7-850

With its 850MHz AMD Athlon processor, 128MB of memory, and a host of high-quality components—including a GeForce 256-based graphics card, 19-inch monitor, and four-channel sound system—CyberMax's $2,349-direct Enthusiast K7-850 gives you value to spare. Factor in its generous 11-title software bundle, which includes Starsiege Tribes and MasterCook Deluxe, and you'll wish it came with some spare time, too. **(See review on p. 99.)**

Takeaway: An enthusiast's system with mass appeal

CyberMax Computer • *www.cybermaxpc.com* • 888-835-2402

SOFTWARE

HomeSite 4.5

For Web designers who still believe that creating a good site means working from the source code up, Allaire's HomeSite offers one of the most powerful HTML programs this side of cyberspace. HomeSite even anticipates the tags you type, lets you choose parameters on the fly, and closes your tags for you. **(See feature on p. 178.)**

Takeaway: Everything you need to create Web sites that connect

Allaire Corp. • *www.allaire.com* • 888-939-2545

Ulead Cool 3D 3.0

Ulead's aptly named Cool 3D boasts dazzling animation effects and excellent import and export capabilities, all tied together with an amazingly simple interface. It's the perfect pick for Web designers looking to add stunning animated graphics without any hassles. **(See review on p. 140.)**

Takeaway: For converting 2D images into 3D animations, this is as cool as it gets.

Ulead Systems • *www.ulead.com* • 800-858-5323

Ulead Cool 3D 3.0

GAMES

The Sims

SimCity creator Will Wright takes the Sim concept to a whole 'nother level—the micromanagement of virtual people known as (what else?) the Sims. Although making sure your Sims eat, bathe, work, and socialize may not sound like much fun, wait until you try it. You don't even need a God complex to love it, though it helps. **(See review on p. 144.)**

Takeaway: One of the year's most original and intriguing games

Maxis/Electronic Arts • *www.ea.com* • 800-245-4525

RECENT WINNERS

DESKTOPS

ABS Performance Alpha
(May) Once again, ABS combines top-shelf components and a reasonable price to create a high-performance system that is also high on value. Selling for $2,399 direct, this 733MHz Pentium III-based PC comes with both DVD-ROM and CD-RW drives, a 19-inch monitor, and a state-of-the-art sound system.
ABS Computer Technologies • *www.buyabs.com* • 800-876-8088

Systemax Excite PJM-800A
(May) It boasts the same feature set as systems costing more than $3,200, but this high-end 800MHz Athlon-based PC costs considerably less. The $2,549-direct Excite lives up to its name with an nVidia GeForce-based graphics card with 32MB of DDR-SDRAM, an 8x CD-RW drive, and a five-piece speaker system.
Systemax • *www.systemaxpc.com* • 800-875-8430

Toshiba Equium 7300S
(April) Corporate IT managers looking for a system that offers a low total cost of ownership will find the $1,227 Toshiba Equium 7300S much to their liking. High on its list of conveniences are an easy-to-maintain case design, and DMI 2.0 and Intel Wired for Management compliance.
Toshiba America Information Systems, Computer Systems Division • *www.toshiba.com* • 800-867-4422

MOBILE

Compaq Presario 1800-XL500
(April) Compaq puts Intel's 500MHz Pentium III processor to work in a $2,798 notebook that's perfect for home and small-business users. Standout features of this 8.5-pound powerhouse include 128MB of SDRAM, a 15.1-inch display, a 6x DVD-ROM drive, and an integrated Ethernet adapter.
Compaq Computer Corp. • *www.compaq.com* • 800-345-1518

Quantex W-1410
(April) Not only is the Quantex W-1410 among the first notebooks to use Intel's SpeedStep technology, but it does so at a most reasonable price. Backed by a 600MHz Pentium III CPU and 128MB of SDRAM, the W-1410 packages a 14-inch display, 10GB hard drive, and 6x DVD-ROM drive for just $2,399.
Quantex Microsystems • *www.quantex.com* • 800-836-0566

Sony VPL-CS1 SuperLite LCD Projector
(April) Sony's VPL-CS1 projector is as light on your wallet as it is on your shoulder. Under

7 pounds, this $2,999 SVGA projector includes a wireless remote that can control the VPL-CS1 and a connected computer.
Sony Electronics • *www.ita.sel.sony.com* • 800-686-7669

Systemax SW15-T650
(May) This 8.6-pound desktop-replacement notebook scores a knockout for budget-conscious buyers looking for a performance champion in a trim case. In addition to its 650MHz Pentium III processor, 128MB of SDRAM, 18GB hard drive, 3D-capable ATI Mobility-P graphics, and 15.1-inch XGA display, the Systemax posted the highest notebook score to date on our Business Winstone 99 test. A low direct price of $3,099 is the icing on the cake.
Systemax • *www.systemaxpc.com* • 800-875-8430

HARDWARE

Kyocera Samurai 2100DG
(May) This new 2.14-megapixel digicam represents a whole new way to look at digital photography. The $799-list Samurai boasts a unique, lightweight design and conveniently placed features that are a snap to use. With its excellent image quality and 4x optical zoom, you'll never want to put it down.
Kyocera Optics • *www.kyocera.com* • 732-560-0060

Maxtor DiamondMax Plus 40
(April) With its whopping 40GB of storage space and 7,200-rpm spin rate, the Maxtor DiamondMax Plus 40 doesn't compromise in performance. Even better, its astoundingly low price of $349 means you won't have to make any compromises, either.
Maxtor Corp. • *www.maxtor.com* • 800-262-9867

HARDWARE

Canon PowerShot S20

Canon's PowerShot S20 aims to please even the most fickle digital photographer with a superb combination of price and performance. Not only is the S20 the first 3-megapixel camera we've seen, but at $799, it's attractively priced as well. The camera boasts image quality rivaling that of a 35mm model, and it packs a wide range of advanced features into a shirt-pocket form factor. **(See feature on p. 154.)**

Takeaway: Shoot for the stars with this affordable 3-megapixel camera.

Canon U.S.A. • ***www.powershot.com*** • 800-652-2666

Hercules 3D Prophet DDR-DVI

Gamers demand the fastest frame rates possible, and that's what you get with the $254 Hercules 3D Prophet DDR-DVI. Loaded with 32MB of DDR SDRAM, composite and S-video outputs, and a built-in DVI interface for digital displays, the 3D Prophet DDR-DVI is as flexible as it is fast. **(See feature on p. 168.)**

Takeaway: The Prophet helps gamers see the light (and shadows).

Hercules • ***www.hercules.com*** • 877-484-5536

HP DeskJet 952C

Hewlett-Packard's DeskJet 952C ranks among the best inkjet printers we've seen. Output quality for color and gray-scale photos is outstanding, as is its ability to print documents containing a mix of graphics and text. Although the 952C's $300 estimated price is higher than average for the category, users looking for the best print quality available should settle for nothing less. **(See review on p. 116.)**

Takeaway: A prime example of how good an inkjet printer can be

Hewlett-Packard Co. • ***www.hp.com*** • 800-722-6538

Samsung SyncMaster 570p Plus

Samsung's $1,139-estimated SyncMaster 570p Plus is not your everyday 15-inch flat-panel display. With built-in stereo speakers, a picture-in-picture function, composite and S-Video inputs, and the ability to pivot between landscape and portrait modes, the 570p Plus gives you lots of extras for about as much as you'd pay for other TFTs. **(See review on p. 111.)**

Takeaway: A competitively priced, full-featured TFT display

Samsung Electronics • ***www.samsungmonitor.com*** • 800-726-7864

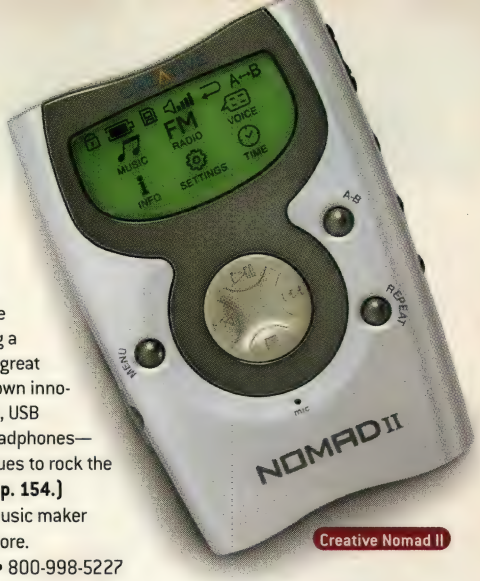
MOBILE

Creative Nomad II

The follow-up to the original Nomad leaves little to be desired. With all the features of its predecessor, including a built-in FM tuner, a silvery case, and great audio quality, as well as a few of its own innovations—such as a handheld remote, USB connectivity, and bass-enhanced headphones—the $329-estimated Nomad II continues to rock the MP3-player market. **(See feature on p. 154.)**

Takeaway: This chart-topping MP3 music maker offers fast file transfers and much more.

Creative Labs • ***www.creative.com*** • 800-998-5227



Creative Nomad II

Samsung SyncMaster 570p Plus

Netgear Phoneline 10X
(May) If you're looking for an easy way to network two or more home PCs, the $53 (single-card price) Netgear Phoneline 10X 10Mbps networking kit is tough to beat. Netgear even goes the extra mile by offering an excellent support policy and extensive connectivity options.
Netgear • ***www.netgearinc.com*** • 888-638-4327

ThrustMaster NASCAR Pro Digital Racing Wheel
(April) The ThrustMaster NASCAR Pro Digital Racing Wheel is about as close as you can get to being behind the wheel of a high-performance race car without raising your insurance premiums. This $75 full-size wheel comes standard with shifters, gas and brake pedals, and awesome force-feedback control.
ThrustMaster • ***www.thrustmaster.com*** • 877-484-5536

SOFTWARE

AAA Map'n'Go 5.0
(May) Road warriors can travel first-class with AAA Map'n'Go 5.0 trip-planning software. In addition to letting you route door-to-door trips across country or across town, this $25 program gives you access to the wealth of touring information from the complete set of AAA guidebooks.
DeLorme • ***www.mapngo.com*** • 800-452-5931

MusicMatch Jukebox Plus 4.5
(April) In addition to recording speeds as fast as 12x and support for bit-rate con-

versions as high as 320Kbps, the $30 MusicMatch Jukebox Plus offers the unparalleled ability to perform batch-file conversions. The perfect match for MP3 mix masters.
MusicMatch • ***www.musicmatch.com*** • 858-385-1300

Norton Internet Security 2000
(May) Norton Internet Security 2000 is the most comprehensive personal security solution available, providing a firewall, virus checker, and parental-control program all in one integrated package. The best news: All this peace of mind can be yours for under $60.
Symantec • ***www.symantec.com*** • 800-441-7234

GAMES

Rainbow Six: Rogue Spear
(May) Tom Clancy's elite counterterrorist squad Rainbow Six returns to active duty in this eagerly awaited sequel to the acclaimed 1998 action-strategy game. In addition to a new series of exciting missions, the game incorporates improvements such as a new replay feature, better team AI, a mission editor, and a wide selection of weapons.
Red Storm Entertainment • ***www.redstorm.com*** • 919-460-1776

Unreal Tournament
(April) Admittedly, first-person shooters aren't everyone's cup of tea. But if you're looking for some intense, barrel-blazing action online or offline, Unreal Tournament is for you. With its five modes of play, superb graphics, and remarkably intelligent bots, Unreal is guaranteed to give you a rumble for your money.
GT Interactive • ***www.unrealtournament.net*** • 800-610-4847

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ThrustMaster NASCAR Pro Digital Racing Wheel	17693
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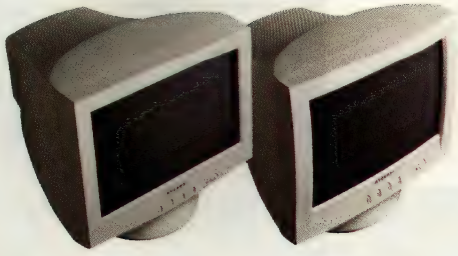

DeluxScan F790
(17inch flat faced monitor)

DeluxScan V770
(17inch conventional monitor)

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- Creative Sound Blaster Live! Platinum PCI Sound
- Creative Desktop Theater 5.1 DTT2500 Digital Shielded Speaker System
- LS-120 120MB / 1.44MB Floppy Disk Drive
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▲ *PC Gamer Editors' Choice—April 1999*

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- 256MB Kingmax TinyBGA PC133 SDRAM Memory (768MB Max)
- Guillemot Hercules 3D Prophet DDR-DVI 4X AGP with NVIDIA GeForce256 GPU and 32MB SDRAM
- Maxtor DiamondMax Plus 30GB 9.0ms 7200rpm Ultra ATA/66 Hard Drive with 2048KB Buffer
- Hyundai DeluxScan G910 19" (18") .26mm 1792@75Hz Monitor
- Hitachi GD-5000 8X DVD-ROM / 40X CD-ROM Drive
- Creative Sound Blaster Live! X-Gamer PCI Sound Card
- Creative PC Works FourPointSurround FPS1000 5-Piece Shielded Speaker System
- LS-120 120MB / 1.44MB Floppy Disk Drive
- SmartLink 56K V.90 PCI Voice Faxmodem
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- Quantum Fireball Plus LM 15GB 8.5ms 7200rpm Ultra ATA/66 Hard Drive with 2048KB Buffer
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INTEL® CELERON™ PROCESSOR 600MHz
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- 64MB Kingmax TinyBGA PC100 SDRAM Memory (512MB Max)
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Complete Systems

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- DVD ROM Drive
- CD Rewritable/Recordable Drive with CD Recording Software
- Creative Labs Soudblaster 64 Wavetable Sound
- Tiny CPR50 Stereo Speakers
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JOHN BLACKFORD
EDITOR-IN-CHIEF

Bots Battle For Value

Today, "intelligent search" is a contradiction in terms, but not forever.

THE WEB WAS BORN IN CHAOS, THOUGH OF A DEMOCRATIC sort: It's a free-form free-for-all ranging in tone from graduate seminar to street hawker pushing Gucci knockoffs at ten bucks a pop. We're still in the blast zone of this digital supernova, so it's hard to say exactly where the Web is heading, but clearly software agents (or bots) will play a role in its future. Anything as diverse and fast-changing as the Web needs tools to sort things out. That's the role of bots, as it is for search engines, portals, even brand-name sites like Amazon.com. However, the notion that bots will lower the noise level is probably naive—and not just because searching complex environments is difficult.

Competing interests are at work, particularly in commerce. As bots become more important, they will themselves become part of the action: Some sites snoop out and block shopping bots; others launch stealth bots to scope out competitors. Bots could even begin to track, and challenge, each other.

In fact, the interplay of search engines, banner ads, shopping bots, customer ratings, and bot blockers is beginning to look more like a bunch of microorganisms fighting it out than anything so high-minded as e-commerce. But that's what it is: commerce at cyberspeed.

Naturally, you'd like a shopping bot that finds the best price from vendors ready to ship and willing to provide great service and support. But how about the best price from a vendor that provides less support? That's tougher. It's not completely farfetched to imagine a bot that could say, "Yes, Store X is cheaper, but Store Y provides better support, an ISP rebate, and has the product in stock."

Bots could become part of the negotiation process—not just software agents but software advocates. Then, you'd want to know whose interests were served. Perhaps Store Y owns this bot. If so, are you getting the whole story? For example, Amazon purchased the shopping bot Junglee for $180 million and added it to the site. Now, if a competing site offers a product cheaper than Amazon, Junglee lists it, though Amazon's is displayed more prominently. *Caveat emptor!*

The brand of shopping bot may become known, just as today names of portals and vendor sites are recognized. Third-party bots could gain respect for even-handedness, or perhaps excellence in a particular area, such as finding hardware components.

However, over-aggressive bots could become a problem. Imagine a vendor's bot going out and pitching anyone shopping on competing sites. Similarly, a lone crusader could send bots to warn customers away from a company he didn't like.

Luckily, such activity would fall afoul of government regulation—not to mention consumer ire. For the near term, battling bots are unlikely for a simpler reason: They're still rather primitive. While it would not be hard to create software pests, government, vendors, and consumers would resist those, too.

ILLUSTRATION BY TIM GRAJEK

PRACTICAL MAGIC

The real trick is producing bots that do more than pull up a list of products and prices—and even doing that accurately can be difficult. Try comparing a set of computer specs across many manufacturers: The specs may seem the same, but one brand may offer a better graphics card, another a free printer, better software, or a rebate. Can you be sure your comparison is complete?

Again, one product may be in stock, another not. One vendor may charge a restocking fee, another may not. Ideally, shopping bots should track all these variations, but the goal remains elusive. One thing that would help standardize comparisons is wider adoption of XML, extensible markup language. XML tags describe the contents of a file, allowing better searching. Of course, Sun, Oracle, and IBM are behind one version, while Microsoft backs another, though the variations are modest. Prompt implementation of XML will enable more powerful shopping bots.

In the meantime, use your own knowledge to augment what bots and search engines can provide. Try working with a limited set of sites that all agree to common standards. Our own online commerce site, ***computershopper.com,*** is one such place. We were surprised to find in our feature on shopping bots last month (May, p. 180) that its product-comparison tool (not a bot) got better prices in some cases than the top eight bots we looked at.

And as Janice Chen notes on p. 12 of this issue, we've added wireless capability to our own price-update application, renamed Price It! It's a feature of every product we review, so check it out.

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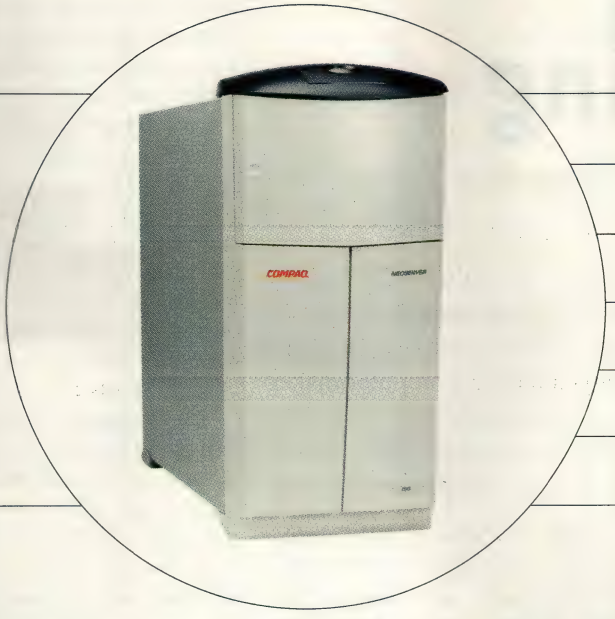

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JOHN DVORAK

One-Button Bill Paying

Commerce will be the driving force behind Bluetooth technology.

WHEN I FIRST SAW CAHNERS IN-STAT GROUP'S projection that Bluetooth technology would link more than 670 million products by 2005, I was flabbergasted by the optimism. But with every cell-phone maker incorporating the technology and every computer maker trying to figure out what to do with it, this estimate may even be low.

Bluetooth is the code name of a specification for low-cost, short-range radio links between desktops, notebooks, cell phones, and even Internet appliances. One Bluetooth device will automatically link to another if it's in range. The network connection, referred to as a piconet, can be point-to-point or point-to-multipoint, depending on the transceiver locations. A piconet can connect up to eight devices, with one unit acting as the master and the others as slaves. Up to 10 piconets can operate in the same coverage range (about 40 feet), with each piconet identified by a different frequency-hopping sequence in order to minimize interference.

Bluetooth is expected to interfere with other technologies, namely the 802.11 wireless LAN specifications, because both use the junk frequency of 2.4GHz. I suspect most wireless LANs will eventually abandon 2.4GHz and leave it to Bluetooth.

When Bluetooth first arrived, I was reluctant to consider it a major trend. Now that IBM, Microsoft, Palm, and all the cell-phone makers have adopted it, I'm convinced it will succeed. But succeed how? First of all, it's a short-range technology using a milliwatt to talk to other devices. Some thought computer makers would like it because it will allow users to synchronize their laptops and desktops. But because the transfer rate is a lethargic 1Mbps, its future in this arena seems unlikely. Within two years, we'll be using 100GB hard drives. You can do the math regarding 1Mbps data rates. I can barely tolerate a 10Mbps network; I use 100Mbps at home.

So let's forget using this system for anything but small, non-PC-intensive chores. Some foresee simple messaging between devices as a primary use, but I'm convinced it will be commerce.

What you're about to read won't be found on any Bluetooth informational site because the vendors involved don't have all their ducks in a row for implementation. But you can bet this is what Bluetooth will be used for: credit-card applications. I have been giving speeches this year outlining some of the implications of the Bluetooth phone, particularly in communicating with the yet-to-be-designed Bluetooth cash register/POS terminal.

When you go to a store—any store—your Bluetooth phone logs on to the store's piconet, which is networked to all the cash registers. When you check out, you pay by hitting your phone's "accept" button. No more money; no more credit cards. If your battery dies, you're temporarily "broke."

It's the payment mechanisms I've been struggling to understand. My first thought is phone companies would love to become bankers and collect the money. They have the most leverage, and they're already bill collectors for various 900 numbers. But any number of alternative bill-payment schemes might develop between now and full implementation of Bluetooth commerce. I'd expect to see various mergers between telecommunications giants and banking or credit-card companies to make this work.

Because the infrastructure for conventional credit cards and even cash transactions is so well-entrenched, the impetus for early adoption of such a new payment mechanism is low. But the public does have a penchant for opting for fast and efficient when given a choice. In a grocery store, the most efficient way to pay will be via the Bluetooth phone, period. Push one button, and you're done. And you can store the items you purchase in your phone, forward them to your computer when you get home and itemize them in Bluetooth Quicken. This is the future of retail. This is what Bluetooth is really about.

dvorak@dvorak.org

ILLUSTRATION BY TIMOTHY COOK

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W-1511 Notebook, *Laptop Buyers Guide and Handbook*, Best Buy, 03/00

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W-1511 Notebook, *Computer Shopper*, Mobile Review, 02/00

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YOU'D NEVER KNOW IT JUDGING FROM ALL THE ads showing up on Web sites everywhere, but e-mail is rapidly becoming online marketers' preferred means of attracting and keeping customers. Online marketers spent $97 million on e-mail marketing last year. Although this figure represents a mere 3 percent of all online advertising dollars, it's expected to rise to 15 percent, or $1.9 billion, by 2003, according to online business research firm eMarketer.

The reason is simple: Click-through, or the proportion of clicks an ad receives to the number of times it's displayed, is only between 0.5 and 0.65 percent, while typical response rates to e-mail ads range from 4 percent to 25 percent.

For online shoppers, browsing is giving way to responding. In fact, 63 percent of shoppers clicked an e-mail link to find the site they bought from, according to a December 1999 survey conducted by online shopping guide e-BuyersGuide.com.

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What's in it for you? All the benefits of e-mail—it's timely, easy to understand, convenient, and a heck of a lot more personalized than any Web site could ever be.

Online shoppers sign up or "opt in" to receive e-mail offers for the stuff they want, be it clothing and sporting goods or health and beauty aids. Driven by the concept of "permission marketing," marketing services send e-mail on behalf of advertisers to a targeted segment of subscribers. These services collect personal demographic information such as gender, ZIP code, job category, and household income to target offers, coupons, and gifts to a receptive audience. But they don't sell or give customer information or e-mail addresses to advertisers. Instead, they lease access to subscribers and manage the mailings.

Once you start buying, merchants work hard to keep your business by e-mailing special offers and timely reminders. For instance, around Presidents Day, Wine.com sent subscribers a 10 percent-off coupon. And two days before Valentines's Day, Eddie Bauer Online sent reminders along with invitations to purchase until midnight the night before the holiday, for next-day delivery.

If you're inactive for a while, online marketers will remind you of that, too. For instance, online community site eCircles (in which our parent company, ZDNet, is a minority investor) recently attempted to coax inactive users back to the site by sending a $10 CDnow gift certificate and a chance to increase it to $50 by signing up friends.

TASTES LIKE SPAM

E-mail marketers aren't in the best company. Spam still accounts for about half of all commercial e-mail. Although the proportion should change as legitimate e-marketing practices succeed, the number of messages you get from both spammers and legitimate marketers will rise from 13.8 messages per day to 18.4, according to eMarketer, an information service for online marketers. If you're like most spam-weary users, you'll just be hitting the Delete key 4.6 more times per day. Indeed, 59 percent of recipients surveyed by market research firm IMT Strategies delete e-mail without even opening it if they don't recognize the sender.

Legitimate online marketers view this as a challenge to better address customer needs. They realize shoppers can take away their permission to send offers as easily as they can grant it. They're also aware of consumers' privacy concerns. Just ask online ad network DoubleClick. After a recent backlash over privacy issues, the company postponed plans to target banners and e-mail to users based on online demographic and offline purchase-history data obtained through its acquisition of Abacus Direct.

Ironically, collecting names without consent and selling them to anyone willing to pay is and always has been common practice in the offline marketing world. The difference is you can't control which types of businesses send you offers, as you can in the online world. For instance, I like my Columbia House free CD offers, but I hate getting calls from companies pushing low-interest credit cards. DoubleClick lets you choose not to receive offers from certain types of businesses, then records this preference in the Abacus database.

But spammers don't follow these rules, presenting online marketers with tough challenges in changing consumer perceptions. To keep consumers' fingers off the Delete key, e-mail marketers will be forced to provide consumers with real value.

Over time, e-mail marketing will revolutionize the way people buy, sell, and organize their lives online. If you're a sports fan or a movie buff, you won't miss out on a grand-opening sale or a new fans-only service, because you've already received the details by e-mail. If you're taking medication, online prescription services will send you refill reminders. And your favorite online stores will send you reminders of birthdays and anniversaries. For the exceptionally busy, searching the Web for bargains could become a thing of the past, replaced by e-mail-based shopping assistants—the push technology that's been in front of our noses all these years. *jobrien_eshopper@mail.com*

ILLUSTRATION BY JOHN BLECK

MICHAEL SLATER

Surf's Up for Info Appliances

Will the coming wave of information appliances dampen PC sales?

IT'S BEEN A FEW YEARS SINCE WE FIRST HEARD ABOUT information appliances, focused-function devices that provide simple access to digital information. And though such devices still comprise a very small part of the market, the number of new launches has recently mushroomed. Many questions remain about just which devices will succeed, in what time frame, and whether they'll coexist with or replace the personal computer.

At the same time, the information-appliance category is still largely undefined, with the label applied to everything from cell phones to refrigerators. To understand what impact these new devices may have on the PC, we need to consider all products that perform tasks now associated with PCs—most notably, Web browsing, e-mailing, game playing, and managing personal information.

The PC still provides the most full-featured Web browsing. Non-PC Web browsers traditionally have been handicapped by their lack of support for media formats such as RealMedia, PDF, and Flash. In time, non-PC solutions will improve. But it's likely there will always be new formats that only PCs support. PCs also benefit from high-resolution displays and large hard drives, which let users comfortably view and download information they find online.

Of course, the PC is not without its drawbacks. It's slow to boot up, confusing to use, unreliable, and confined to the den or home office. Television-based Internet devices, such as the WebTV, have their place, but are limited by the TV's low-resolution screen, which discourages prolonged surfing and text reading. Newer Web terminals that use LCD panels, such as Netpliance's i-opener (see "The Quest for the Best" in the Features section), offer far better visual performance and will probably play an increasingly important role.

ACCESS ANYWHERE

Web browsing can also be integrated into phones with an LCD screen, such as InfoGear's iPhone. These are good for fast access to small amounts of information, such as a client's phone number or local movie-theater listings.

Even more interesting is the Web tablet, a new breed of portable device with a touch screen and a wireless online connection. Web tablets, which have been widely demonstrated but are not yet shipping, will change the way we use the Internet by making it instantly available wherever we want it.

The handheld organizer, or personal digital assistant (PDA), is still the most successful information appliance. These devices do something the PC can't: They fit in your pocket. This category, led by Palm, is more than a simple, self-contained appliance; it's also a platform for third-party applications. But the PDA preserves appliance-like ease of use and simplicity, and most users stick with the software that ships with the device.

Cell phones continue to evolve from communication devices to information appliances. Their limited display size prevents them from being useful for unconstrained Web browsing or e-mail applications, but they're handy for sending and receiving brief messages or delivering data from the Web. The tremendous advantage of the cell phone is its ubiquity. About 350 million are in use today, and this number is expected to exceed 1 billion within a few years.

THE FUTURE IN PLAY

The evolution of video-game consoles is one of the most interesting developments. Sony's PlayStation2, due out this fall, and Microsoft's X-Box, which should be available in the fall of 2001, will likely be the leading contenders in the living-room computing-device category. Although game consoles are unlikely to supplant the PC altogether, they'll let you perform a range of computing tasks perfectly suited for the living-room environment, such as browsing the Web and downloading movies.

These are just a few of the many devices showing up on the industry radar screen. Although none of them is an obvious successor to the PC, it would be a big mistake for PC fans to dismiss them as mere toys. Let's not forget how mainframe-computer makers viewed the PC in its infancy. They derided it as hopelessly inadequate, right up to the time the PC put them out of business. It's the nature of innovations to seem inferior in their early years. Over time, however, it's the established product that's at risk.

slater@mdr.cahners.com

ILLUSTRATION BY TIM WEBB

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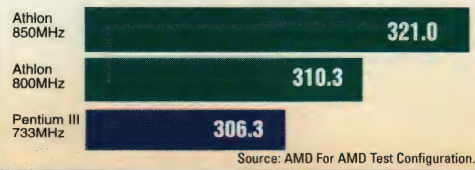

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56K[1] PCI Voice Modem	56K[1] PCI Voice Modem	56K[1] PCI Voice Modem	56K[1] PCI Voice Modem
Mid-Tower Case	Mid-Tower Case	Mid-Tower Case	Mid-Tower Case
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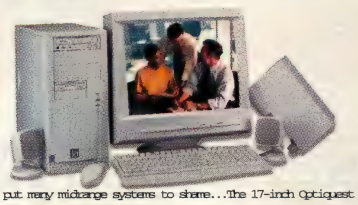

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- **PC World Best Buy** *May 2000*
  The Sierra LE boasts features and performance that put many midrange systems to shame...The 17-inch Optiquest Q71 monitor produced bright, crisp colors and sharp text at resolutions up to 1280 by 1024.
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  Nutrend's $929 (Maestro GE) Celeron 500 earns a PC WorldBench 98 score of 214—a high number for a Windows 98 system in its CPU class. The 17-inch Optiquest Q71 monitor produces sharp text and vibrant colors.
- **Computer Shopper Best Buy & Top 100 Products of the Year**
- **Computer Buyer's Guide Best Buy (3 Times) • CNET Top 5 PC**

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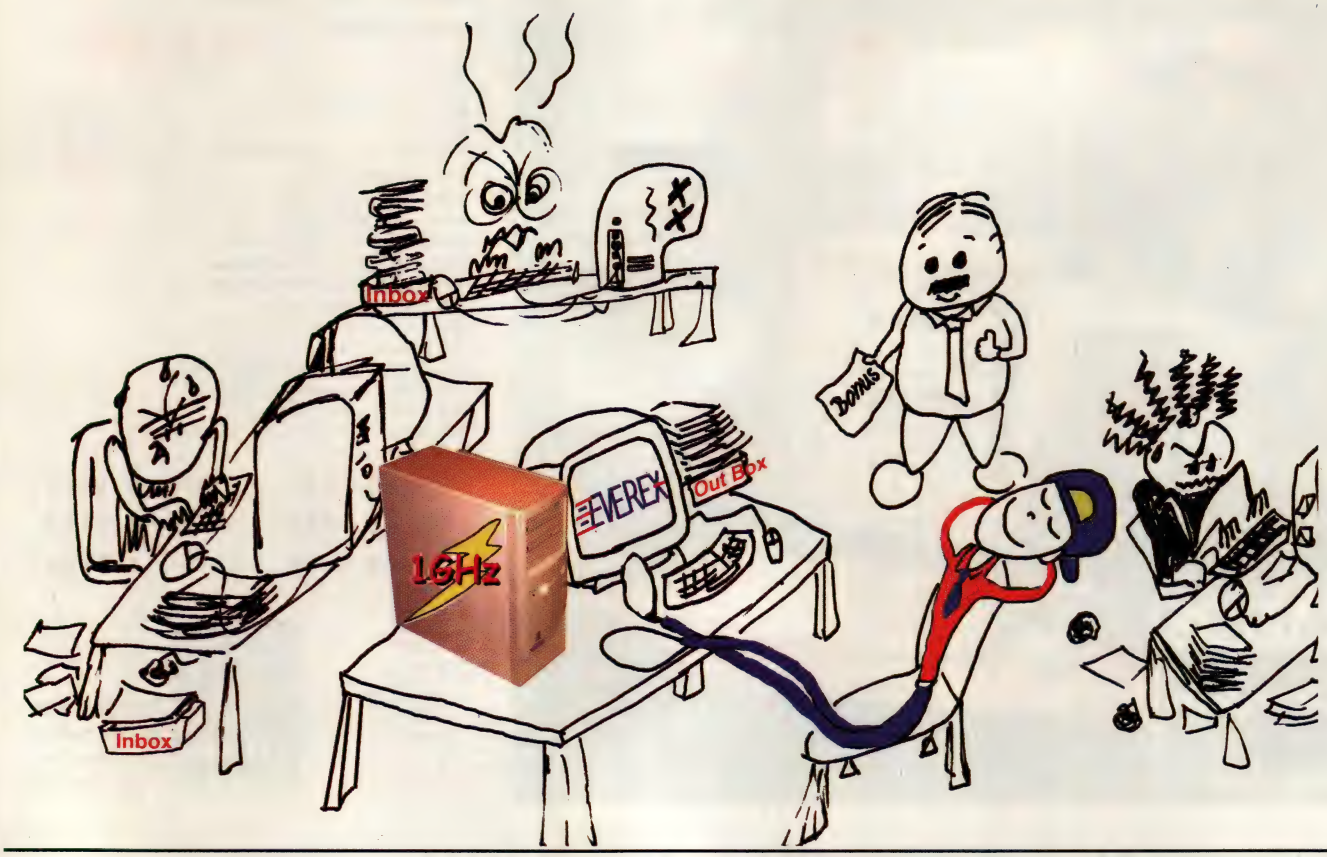

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AMD Athlon Computer Systems

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PC #33

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AMD CPU's

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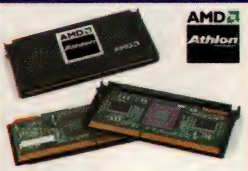

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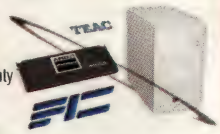

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DESKTOPS

CYBERMAX ENTHUSIAST K7-850

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Computer Shopper Best Buy June 2000

DESIGNED WITH COMPUTER ENTHUSIASTS, HARD-CORE GAMERS, and desktop publishers in mind, the aptly named CyberMax Enthusiast K7-850 stands ready to appease even the most power-hungry technophile. With its noteworthy application performance, a generous software bundle, and an abundance of high-end components, the Enthusiast offers great value for a direct price of $2,349.

Under the Enthusiast's hood you'll find a robust 850MHz AMD Athlon processor and 128MB of 100MHz SDRAM. The system we tested features a roomy 28GB Seagate Barracuda ST328040A hard drive and an 8x Toshiba SD-M1302 DVD-ROM drive—though by the time you read this, a 30GB hard drive and a 12x DVD drive will come standard at no additional cost. Our evaluation system also came equipped with an Iomega 250MB Zip drive. Nestled in the Enthusiast's 2x AGP slot is an nVidia GeForce 256-based graphics card with 32MB of SDRAM, while an Aureal Vortex2 sound card resides in one of its PCI slots.

The Enthusiast makes an impressive showing when it comes to application performance. As expected, its Business Winstone 99 score of 30.6 is a bit higher than similarly configured 800MHz AMD Athlon desktops, though a hair slower than the 800MHz Intel Pentium III-based systems we've tested. (Although Pentium III-based systems have proven they have slightly more performance muscle than comparably fast Athlon systems, they tend to cost more.) On our Business Disk WinMark 99 benchmark test, the Enthusiast's score of 4,920 certainly showed it to have a fast hard drive, though it was marginally slower than what we've come to expect from this class of system.

The system's 3D WinMark 2000 score of 97, meanwhile, indicates solid 3D graphics performance, but it's not quite as fast as some systems we've seen that use the same GeForce 256 graphics engine. In real-world testing with a few rounds of Quake III Arena, gameplay was as smooth as silk, even with all the settings maxed out.

While we were blasting bad guys, the Vortex2's A3D-enabled sound card nearly brought the roof down with the assistance of the Altec Lansing ADA305 three-piece speaker system. We especially liked Altec's Audio Management software, which let us sculpt the simulated surround sound to suit a wide range of preferences. A USB connection lets you remotely control the speaker's settings from the Windows desktop. The 19-inch CyberMax CX900DF monitor was also easy on the eyes, displaying crisp, clear images.

As for future add-on potential, the Enthusiast's minitower case offers a fair amount of growing room. Two PCI, one ISA, and one shared PCI/ISA slots are free. Additionally, one 5.25-inch external and two 3.5-inch internal drive bays remain unused. Connecting external peripherals shouldn't be a problem, judging from the single parallel, two USB, two serial, and two PS/2 ports.

Another appealing aspect of the Enthusiast is its abundant software bundle. The system comes standard with Corel WordPerfect Office 2000, but for an additional $99 you can upgrade to Microsoft Office 2000 Small Business. CyberMax also throws in its Enthusiast Pack, which includes 10 software titles, including Grolier's Encyclopedia DVD Edition, McAfee VirusScan, and Sierra Starsiege.

CyberMax's Web site provides an online configurator, which lets you review the specifications of its systems, tailor a system's configuration to suit your specific needs, and have it shipped straight to your door. Of course, you can still place orders by phone. CyberMax also offers an online peripheral store, MaxMyPC.com, which sells everything from printers to digital cameras.

In the event you run into any problems not addressed by the system's generic user's guide, CyberMax offers thorough technical support on its Web site and provides 24-hour toll-free phone support. The Enthusiast is covered by a three-year parts-replacement warranty, which includes one year of labor and onsite service. You can extend the warranty to a total of four years of parts, labor, and onsite labor coverage for an additional $270.

With its solid application performance and features, the CyberMax Enthusiast K7-850 certainly gives users their money's worth. And, if you wish to add components such as a CD-RW drive or an inkjet printer, they're only a few clicks away at CyberMax's Web site.

—Brian Bennett

★★★★
RATED 1 TO 5 STARS

Strong application performance; attractive price; superior-sounding audio; good software bundle

Hard drive and 3D graphics performance lag slightly behind competing systems; minimal documentation

SYSTEM:
CyberMax Enthusiast K7-850
COMPANY:
CyberMax Computer
Allentown, PA; 888-835-2402
www.cybermaxpc.com
AS TESTED: 850MHz AMD Athlon; 128MB 100MHz SDRAM; 28GB hard drive; 8x DVD-ROM drive; 250MB Iomega Zip drive; nVidia GeForce 256-based graphics card with 32MB SDRAM; 19-inch CyberMax CX900DF monitor; Aureal Vortex2 sound card; Altec Lansing ADA305 satellite-subwoofer speaker system; 3Com 56Kbps modem; Corel WordPerfect Office 2000; additional software
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DESKTOPS

TINY MILLENNIUM WRITER 700

Tiny Package, Sizable Value

YOU PROBABLY AREN'T FAMILIAR WITH TINY COMPUTERS, BUT THE company is anything but small. It's the largest computer vendor in Great Britain and recently opened 31 stores on the U.S. West Coast. And don't be fooled by the competitive $1,918-direct price tag on its Millennium Writer 700 computer. Although Tiny has produced a conservative performer aimed at the home market, the system is bursting with big-time features.

The Millennium Writer packs a 700MHz Pentium III, 128MB of SDRAM, and 18GB of hard drive storage, which will be upped to 20GB by the time you read this. Also in the box are a Leadtek WinFast 3D II graphics card with an nVidia TNT2 Ultra accelerator and 32MB of SDRAM, a 17-inch ViewSonic GS77 monitor, a 6x Panasonic DVD-ROM drive, and a 4x/4x/24x Sony CD-RW drive. What's more, a Lexmark Z31 color inkjet printer and a 600-dpi flatbed USB scanner are part of the package.

Although the Millennium Writer's component selection is impressive, its performance comes up a bit short. We've found that mating a Pentium III CPU to a motherboard based on a Via Apollo Pro 133 chip set tends to slow performance slightly. This was true in the case of the Millennium Writer: The system's CPU performance was 11 percent slower than that of our Dell XPS T700r reference system, which is powered by the same 700MHz Pentium III processor but uses a different motherboard chip set.

Gamers may also have cause for concern with the system's 3D graphics performance. Though the Millennium Writer's 3D WinMark 2000 score of 55.6 is good enough for many games, it's only about half as fast as the result posted by our nVidia GeForce 256-based reference system. We also noticed that the supplied drivers were a few revisions behind those currently available on nVidia's Web site.

The Millennium Writer's 2D graphics and hard drive performance scores also lag slightly behind those of our reference system. This helps explain why the Millennium Writer's Business Winstone 99 score of 26.2 is about 13 percent lower than the Dell's. Still, considering the price difference between the two systems, that's not a huge deficit—and one barely noticeable with most mainstream applications, such as word processors and Web browsers.

Room for expansion is minimal in the small 14.5x7x15-inch (HWD) minitower case. The only available drive bay is a single internal 3.5-inch bay, and the only expansion-card options are a shared PCI/ISA slot and a PCI slot. One of two DIMM sockets is unpopulated and can host additional memory.

We were particularly pleased with the image quality of the GS77 monitor and its 16-inch viewing area. The Millennium Writer's sound quality, coming from the Tiny CPR100 three-piece speaker system, was equally impressive. The subwoofer tacked an extra $39.99 onto the system's price. In fact, a number of the components in our tested configuration are upgrades: The Z31 printer is a $79.99 upgrade from a Lexmark Z11, and the TNT2 Ultra graphics card is a $99.99 addition. Without these improvements, the base price of this system is $1,699.

Aside from choosing a different monitor or extending the warranty, these are the only configuration options available on Tiny's Web site. You'll find a support link on the site, but it is far from what we're accustomed to seeing. You have to locate driver upgrades with a keyword search, rather than simply looking under a "peripherals" heading.

The Millennium Writer is covered by a three-year parts and one-year labor warranty, which can be extended to three years of onsite service for $99. Tiny offers toll-free technical support, which should be available 24 hours a day by the time you read this; at press time, support was available every day, but only during certain hours.

At $1,918, even if the Millennium Writer stopped at just the basic components, it would still be a competitive system. By including a printer, a scanner, and both DVD-ROM and CD-RW drives, for practicality and a little whimsy, the Tiny Millennium Writer 700 becomes a big bargain.

—Bill O'Brien

★★★
RATED 1 TO 5 STARS

Competitive price; great components

Disappointing performance; limited expansion potential; few configuration options on Web site

SYSTEM:
Tiny Millennium Writer 700
COMPANY: Tiny Computers
Tacoma, WA; 888-550-8469
www.tiny.com
AS TESTED: 700MHz Pentium III; 128MB SDRAM; 18GB hard drive; 6x DVD-ROM drive; 4x/4x/24x CD-RW drive; Leadtek WinFast 3D II graphics card with 32MB SDRAM; 17-inch ViewSonic GS77 monitor; integrated Creative Labs ES1873 sound chip; Tiny CPR100 three-piece speaker system; 56Kbps modem; Lexmark Z31 color inkjet printer; Tiny 600-dpi flatbed USB scanner; Microsoft Works Suite 2000; additional software
DIRECT PRICE: $1,918

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Buy or lease the Prosignia Desktop 340 now and you'll get free,[5] one-touch Internet access with multiple e-mail accounts, free[5] Windows 2000 online training, and a free[7] e-commerce storefront — all accessible through www.MyWorkspace.compaq.com[6]. And all for as little as $1019[1]! Plus, if you lease your new PC, you can choose between a three-month lease payment holiday each year or a 2% rebate on the leasing price.[2] Either way, it's an exceptional business solution that's ready to run, right out of the box.

Microsoft Windows 2000 Professional is the most reliable Windows OS ever. The familiar Windows interface is easy to use and maintain. And enhanced Internet connectivity makes it an ideal tool for running today's business computing — especially when paired with the Prosignia Desktop 340.

This desktop is designed and priced specifically for growing businesses like yours. It's powered by an Intel® Celeron™ processor, and pre-loaded with the most popular business software. Plus, it's backed by thousands of Compaq Authorized Resellers, who are experts at understanding and serving your needs.

Windows 2000, the Compaq Prosignia Desktop 340, free[7] Internet services, and cash back[2]. Talk about an end-to-end business computing solution. Call Compaq to take advantage of this offer today.

PROSIGNIA DESKTOP 340

$1019[1]

$29 Monthly lease[2]

- **QuickAccess Code: 37X5X8-17317AA**
- Intel® Celeron™ processor 533MHz
- Microsoft® Windows® 2000 Professional
- Microsoft Word® 2000
- 64MB 100MHz SDRAM
- 4.3GB hard drive[3]
- Prosignia Internet Keyboard
- Intel Pro 10/100 NIC
- Compaq 15" monitor (13.8" viewable)
- 40X Max CD-ROM drive[4]
- Free[5] Windows 2000 online training
- Free[5] three months of Compaq.NET™ for Business
- Access to wwwMyWorkspace.compaq.com[6]
- Free[7] e-commerce storefront through www.MyWorkspace.compaq.com[7]
- Three-year limited warranty[8]

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PROCESSOR

[1]All prices shown are Compaq prices. Retailer and reseller prices may vary. Prices shown are subject to change and do not include applicable state and local sales tax or shipping to recipient's destination.[2]Compaq Financial Services: Financing available through Compaq Financial Services Corporation (CFSC) to qualified commercial customers in the U.S. Financing is subject to credit approval and execution of standard CFSC documentation. Monthly lease payments are based on a 48-month Fair Market Value lease, and do not include taxes, fees, or shipping charges. Customers who lease Compaq products with Microsoft Windows 2000 can choose to defer lease payments for 90 days of each year of the billing cycle, to be followed by 18, 24, 36, or 48 payments; or customers can enter into a lease with a standard 30-day billing cycle and receive 2% cash back on the total value of the lease. Lease must commence between 1/24–6/30/00 to qualify for this offer. Other fees and restrictions may apply and CFSC reserves the right to change or cancel this program at any time without notice. [3]For hard drives, GB=billion bytes. [4]40X Max CD-ROM data transfer rates may vary from 2500 to 6000 Kbps. [5]Some restrictions apply. See your local retailer or www.compaq.com/smb/windows2000 for details. Offer ends 6/30/00. [6]Access to www.MyWorkspace.compaq.com requires Internet access capability. [7]See www.MyWorkspace.compaq.com for All-in-One eBusiness. [8]Certain restrictions and exclusions apply. Call (800) OK COMPAQ for warranty details. ©2000 Compaq Computer Corporation. All rights reserved. Compaq, the Compaq logo, and Prosignia are registered trademarks of Compaq Computer Corporation. Microsoft, Windows, and Windows 2000 are registered trademarks of Microsoft Corporation. Intel and the Intel Inside Logo are registered trademarks, and Celeron is a trademark, of Intel Corporation. Compaq is not liable for editorial, pictorial, or typographical errors in this advertisement. 3784/06/00

DESKTOPS

ABS PERFORMANCE 1 ATHLON

An All-Star Performance

IF YOU BELIEVE THAT THE PREMIUM YOU'D PAY FOR TODAY'S SPEED-KING processor could be better spent building up the rest of the system, you're on the same track as ABS Computer Technologies. The company's $2,699-direct Performance 1 Athlon is based on a 900MHz AMD Athlon processor, which doesn't trail far behind the newer and sexier 1GHz Athlon CPU in performance.

Nevertheless, the Performance 1 packs a lot more than just a fast processor. You also get 256MB of memory, a large 27.3GB hard drive, and a powerful Creative Labs Annihilator Pro graphics card. Other amenities include a 19-inch ADI monitor, a 10x DVD-ROM, and an 8x/4x/32x CD-RW drive. A Creative Labs Sound Blaster Live Platinum sound card (with a front-mounted Live Drive for easy audio-connector accessibility) and the five-piece Cambridge SoundWorks FourPointSurround FPS2000 Digital speaker system combine to kick out awesome-sounding audio. Rounding out this impressive assembly is a 3Com V.90 modem and a Creative Labs Video Blaster WebCam Go camera.

With all of these cool components to keep you occupied, you'd be hard-pressed to miss the extra 100MHz of processor speed. And indeed, the Performance 1's score of 31.1 on Business Winstone 99 is only about 5 percent slower than the 32.8 result posted by the 1GHz Athlon-based Gateway Select 1000 (see "The Quest for the Best" in the Features section)—a difference you're unlikely to detect. In addition, gamers will be happy to note the boost the system gets from its nVidia GeForce 256-based graphics card with 32MB of dual-data-rate (DDR) memory, the hottest choice currently available for 3D graphics. In fact, the Performance 1's score of 125 on our 3D WinMark 2000 test is among the best we've seen.

To further the Performance 1's entertainment appeal, its DVD-ROM drive and Cyberlink PowerDVD player software will keep you amused for as long as there are DVD movies to play. Contributing to this equation is the 18-inch viewing area of the monitor, which makes even letterbox videos palatable. Add the four 7-watt satellite speakers and the 25-watt subwoofer, and you've got a system that's ready to give your local multiplex theater some heavy competition.

The Performance 1's CD-RW drive will do well as a backup device for all of your critical data files, but you'll want to get your audio CDs down from the shelf as well. With the included Adaptec EZ CD Creator 4.0, you can extract selected tracks from your favorite CDs to create your own hit compilations.

Given that four of the 17x8x19-inch tower case's accessible drive bays are already taken by the DVD, CD-RW, and floppy drives and the Creative Labs Live Drive, we were amazed to find two accessible bays still empty. No internal bays were vacant, however. Opening up the system is a simple process: Just undo a thumbscrew, push the top cover back and up, and lift off the side panel. Inside, you'll find a BioStar motherboard with an AMD chip set. Two of the system's four PCI slots are unused, as are the PCI/ISA shared slot and a single ISA slot. The system's 256MB of memory occupies two of the three DIMM sockets.

ABS provides 24-hour daily technical phone support, and we've found the service to be consistently above average. The Performance 1 is covered by a three-year warranty with one year of onsite service handled through Banctec. Spring for an additional $99, and you can extend the onsite plan to a total of three years.

Although the ABS Web site features a support section, it's not quite as thorough as other manufacturers' sites. But if all you're looking for is the latest driver for a component, chances are you'll find what you're looking for. The site is well-designed for shoppers looking to buy a new system. Every system ABS sells is fully customizable, and the drop-down list of available components in the online configurator is nothing short of remarkable.

Sure, you could pay big bucks for the fastest PC processor available. But the ABS Performance 1 Athlon gets you mighty close to the CPU bleeding edge while giving you plenty of extras.

—Bill O'Brien

★★★★
RATED 1 TO 5 STARS

Excellent performance; packed with top-notch components

Minimal online support

SYSTEM:
ABS Performance 1 Athlon
COMPANY:
ABS Computer Technologies
Whittier, CA
800-876-8088, 562-695-8823
www.buyabs.com
AS TESTED: 900MHz AMD Athlon; 256MB SDRAM; 27.3GB hard drive; 10x DVD-ROM drive; 8x/4x/32x CD-RW drive; Creative Labs Annihilator Pro graphics card with nVidia GeForce 256 accelerator and 32MB DDR-SDRAM; 19-inch ADI G66 monitor; Creative Labs Sound Blaster Live Platinum sound card; Cambridge SoundWorks FourPointSurround FPS2000 Digital five-piece speaker system; 3Com V.90 modem; Creative Labs Video Blaster WebCam Go camera; additional software
DIRECT PRICE: $2,699

COMPUTER SHOPPER Price It!™
24920
For real-time pricing, go to *priceit.zdnet.com* and enter number.

SECTION CONTINUES ON PAGE 111

Call 800-738-2219. Phone Hours: M-TH: 8a.m.-Midnight (EST); Friday: 8a.m.-9p.m (EST); Saturday: 10a.m.-7pm (EST). GSA Contract #GS-35F-0049K

Join the Internet Revolution with an E-Powerhouse from Quantex

QUANTEX SM933z

Cutting-Edge Performance Desktop

- *New* Intel® Pentium® III Processor 933MHz
- *New* 128MB RDRAM Memory
- 40GB 7200rpm Ultra ATA-66 Hard Drive
- 19" Monitor w/Diamondtron NF CRT (18" vis, .25ag)
- nVidia GeForce 256 4X AGP Graphics w/32MB, TV-out
- CD-Rewritable Drive
- 12x Max Variable Speed DVD-ROM Drive
- 56K V.90 Internet Fax/Modem[1]
- 10/100 PCI Network Card—Broadband Ready
- *New* Sound Blaster Live! Value Digital PCI Audio
- *New* Cambridge SoundWorks FPS2000 Digital Speakers
- Microsoft Office 2000 SBE

$2999

Business lease:$109/Mo., 36 Mos.

ci-QUOTE NUMBER: csa06s41

QUANTEX SM866x

Cutting-Edge Performance Desktop

- Intel® Pentium® III Processor 866MHz
- 128MB SDRAM Memory, PC133 Ready
- 30GB 7200rpm Ultra ATA-66 Hard Drive
- 19" Monitor w/Diamondtron NF CRT (18" vis, .25ag)
- Matrox G400 AGP Graphics w/32MB (DualHead display)
- CD-Rewritable Drive
- 12x Max Variable Speed DVD-ROM Drive
- 56K V.90 Internet Fax/Modem[1]
- 10/100 PCI Network Card—Broadband Ready
- Sound Blaster AudioPCI 128 Sound Card
- Altec Lansing ACS-33 Speakers w/ subwoofer
- Microsoft Office 2000 SBE

$2299

Business lease:$84/Mo., 36 Mos.

ci-QUOTE NUMBER: csa06s30

QUANTEX SM800s

Cutting-Edge Performance Desktop

- Intel® Pentium® III Processor 800MHz
- 128MB SDRAM Memory, PC133 Ready
- 30GB 7200rpm Ultra ATA-66 Hard Drive
- 17" Monitor w/Diamondtron NF CRT (16" vis, .25ag)
- nVidia Riva TNT2 AGP Graphics w/32MB, TV-Out
- Internal Zip Drive
- 12x Max Variable Speed DVD-ROM Drive
- 56K V.90 Internet Fax/Modem[1]
- 10/100 PCI Network Card—Broadband Ready
- Sound Blaster AudioPCI 128 Sound Card
- Altec Lansing ACS-33 Speakers w/ subwoofer
- Microsoft Office 2000 SBE

$1899

Business lease:$69/Mo., 36 Mos.

ci-QUOTE NUMBER: csa06s21

QUANTEX SM733t

Cutting-Edge Performance Desktop

- Intel® Pentium® III Processor 733MHz
- 128MB SDRAM Memory, PC133 Ready
- 30GB 7200rpm Ultra ATA-66 Hard Drive
- 17" Monitor w/Diamondtron NF CRT (16" vis, .25ag)
- nVidia Riva TNT2 AGP Graphics w/32MB, TV-Out
- 56K V.90 Internet Fax/Modem[1]
- 10/100 PCI Network Card—Broadband Ready
- 12x Max Variable Speed DVD-ROM Drive
- Sound Blaster AudioPCI 128 Sound Card
- Altec Lansing ACS-21W Speakers
- Corel WordPerfect Office 2000
- LexMark Z11 Color Printer

$1599

Business lease: $58/Mo., 36 Mos.

ci-QUOTE NUMBER: csa06s13

Standard Features: Floppy Drive, MS Windows 98 2nd Ed, Internet-Ready Keyboard & MS Mouse, ATX Mid-Tower Case, Software Essentials, 2 USB Ports, 3-Year Limited Warranty & 24/7 Toll-Free Technical Support

Peripheral Upgrades: Canon MultiPass C560 Printer/Scanner/Fax/Copier...add $299. 36-bit USB Color Scanner...add $99 (after rebate). MS Sidewinder Precision Pro Joystick...add $49. Lexmark Z51 Color Printer...add $149

Your new Quantex multimedia desktop comes equipped with the latest software plug-ins[2] which allow you to immediately begin enjoying the streaming video, 3D animation and music technologies of Intel® Pentium® III processor-optimized sites.

*Quantex SM933z Performance Desktop Pictured**

Get a Quantex PC featuring the Intel® Pentium® III processor & you'll experience a whole new Internet

Power, performance, pure adrenaline-pumping speed. That's what the Internet Revolution demands. And that's exactly what Quantex multimedia desktops deliver. At their heart is the astonishing Intel® Pentium® III processor, with speeds up to a scorching 933MHz! Suddenly, you're seeing web graphics in brilliant 3D and experiencing full-screen, full-motion video. You can even run the most cumbersome multimedia applications in record time. And the Internet itself becomes a more productive—not to mention, more dazzling—place to be. You get all this, plus Quantex's award-winning service and reliability. There's never been a better way to get inside the Bold New Internet.

QUANTEX M800s

Affordable Desktop Solution

- **Intel® Pentium® III Processor 800MHz**
- **128MB High-Performance SDRAM Memory**
- 30GB Ultra ATA Hard Drive
- **19" Monitor (18" vis, .26dp. 1600x1200 max res)**
- Intel 2D/3D Graphics Accelerator
- 56K V.90 Internet Fax/Modem[1]
- **3rd Generation DVD-ROM Drive**
- Dynamic Wavetable Stereo Sound
- 3-Piece Stereo Speakers w/subwoofer
- Corel WordPerfect Office 2000

$1499

Business lease: $54/Mo., 36 Mos.
Q-QUOTE NUMBER: csa06m40

QUANTEX M733t

Affordable Desktop Solution

- **Intel® Pentium® III Processor 733MHz**
- **128MB High-Performance SDRAM Memory**
- 15GB Ultra ATA Hard Drive
- **17" Monitor w/on-screen display (15.8" vis)**
- Intel 2D/3D Graphics Accelerator
- **Internal Zip Drive**
- 3rd Generation DVD-ROM Drive
- 56K V.90 Internet Fax/Modem[1]
- Dynamic Wavetable Stereo Sound, Speakers w/sub
- Corel WordPerfect Office 2000

$1299

Business lease:$47/Mo., 36 Mos.
Q-QUOTE NUMBER: csa06m39

QUANTEX M566c

Affordable Desktop Solution

- **Intel® Celeron™ Processor 566MHz**
- 64MB SDRAM Memory
- 10GB Ultra ATA Hard Drive
- **17" Monitor w/on-screen display (15.8" vis)**
- Intel 2D/3D Graphics Accelerator
- 48x Max Variable Speed CD-ROM Drive
- 56K V.90 Internet Fax/Modem[1]
- Dynamic Wavetable Stereo Sound, Speakers
- Corel WordPerfect Office 2000
- *Upgrade to 128MB SDRAM for $99*

$899

Q-QUOTE NUMBER: csa06m04

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GSA Contract #GS-35F-0049K

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Achieve BreakNet Speeds Wherever You Work

Active Matrix Displays up to 15" deliver the 3D multimedia brilliance of the Internet on a "XX-Large" crisp viewing area.
ATI Mobility P Graphics w/8MB RAM provides razor-sharp resolution and visually stunning performance on all interactive 3D/2D applications, games, the Internet and more.
A versatile all-in-one notebook design includes a built-in 3.5" diskette drive.
W-Series Notebook pictured

QUANTEX W-1500

New Pentium® III Processor 700MHz
featuring Intel® SpeedStep™ Technology
15" XGA TFT Active Matrix Display
128MB SDRAM Memory
New 18GB Ultra ATA Hard Drive
Modular 6x Max Variable Speed DVD-ROM Drive
Integrated Stereo Sound and Speakers
ATI Mobility P Graphics w/8MB, TV-Out
Quantex Deluxe Carrying Case Included!
Microsoft Windows 2000 Professional
Microsoft Office 2000 SBE

$2999

Business lease:$109/Mo., 36 Mos.
QUOTE NUMBER: csa06w42

QUANTEX W-1500

New Pentium® III Processor 650MHz
featuring Intel® SpeedStep™ Technology
15" XGA TFT Active Matrix Display
64MB SDRAM Memory
12GB Ultra ATA Hard Drive
Modular 6x Max Variable Speed DVD-ROM Drive
Integrated Stereo Sound and Speakers
ATI Mobility P Graphics w/8MB, TV-Out
Quantex Deluxe Carrying Case Included!
Corel WordPerfect Office 2000
Microsoft Windows 2000 Professional
Upgrade to Microsoft Office 2000 SBE for $129

$2599

Business lease: $94/Mo., 36 Mos.
QUOTE NUMBER: csa06w38

QUANTEX W-1400

Pentium® III Processor 650MHz
featuring Intel® SpeedStep™ Technology
14.1" XGA TFT Active Matrix Display
64MB SDRAM Memory
10GB Ultra ATA Hard Drive
Modular 6x Max Variable Speed DVD-ROM Drive
Integrated Stereo Sound and Speakers
ATI Mobility P Graphics w/8MB, TV-Out
Quantex Carrying Case
MS Windows 2000 Professional; Corel Office 2000
Upgrade to Microsoft Office 2000 SBE for $129

$2399

Business lease:$87/Mo., 36 Mos.
QUOTE NUMBER: csa06w16

QUANTEX W-1400

Intel® Pentium® III Processor 600MHz
featuring Intel® SpeedStep™ Technology
14.1" XGA TFT Active Matrix Display
64MB SDRAM Memory
6GB Ultra ATA Hard Drive
Modular 24x Max Variable Speed CD-ROM Drive
Integrated Stereo Sound and Speakers
ATI Mobility P Graphics w/8MB, TV-Out
Quantex Carrying Case
MS Windows 98 Second Edition
Corel WordPerfect Office 2000
Upgrade to Microsoft Office 2000 SBE for $129

$1999

Business lease: $73/Mo., 36 Mos.
QUOTE NUMBER: csa06w18

Standard Features: Smart Lithium Ion Battery, Floppy Drive, 56K V.90 Internet Fax/Modem, USB/Fast IR Ports, Personal Touchpad, 3-Yr Limited Warranty on CPU & Memory, 1-Yr Parts and Labor Limited Warranty on all other components
Peripheral Upgrades: Quantex Mini-Docking Station...call for price. Smart Lithium Ion Battery...$119. PCMCIA Network Card...$129. Quantex Deluxe Carrying Case...$89. Targus Defcon1 Security Lock...$49. Canon BJC-85 Portable Color Printer...$299.

Select Quantex notebooks feature **Windows 2000 Professional** pre-installed for a whole new dimension in mobile computing with greater reliability, power management and integrated security than any other OS available.

intel inside
pentium® III

Quantex W-1500 Notebook Pictured with Optional Mini-Docking Station

Web-enhanced notebooks that'll make you forget about your desktop

***New* Pentium® III processor 700MHz** featuring Intel® SpeedStep™ Technology brings you a richer Internet experience including 3D graphics, full-screen, full-motion video, screaming audio, realistic animation and much more.

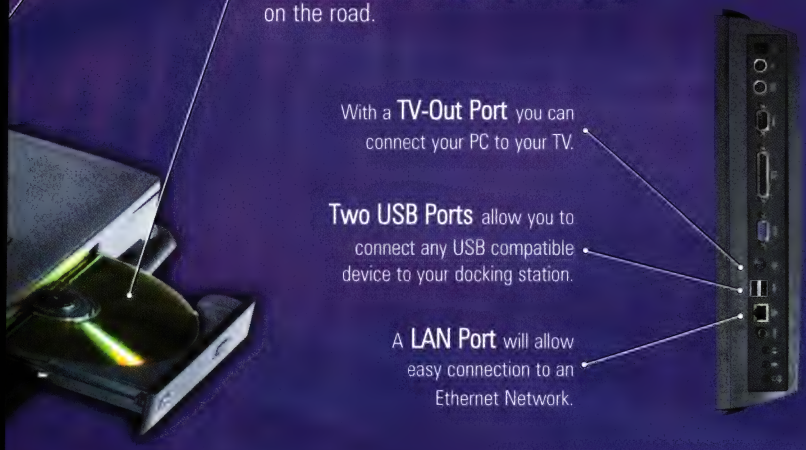
Windows 2000 Professional provides the ultimate mobile security and reliability, while enabling advanced connectivity through the web.

A built-in modular drive accommodates a **CD/DVD-ROM Drive** for maximum convenience when working (or playing) on the road.

With a **TV-Out Port** you can connect your PC to your TV.

Two USB Ports allow you to connect any USB compatible device to your docking station.

A **LAN Port** will allow easy connection to an Ethernet Network.



W-Series Notebook mini-docking station pictured

With a full featured notebook from Quantex, you'll work faster than ever while taking full advantage of all the Internet has to offer. Plug a W-Series Desktop Replacement Notebook into a mini-docking station and accomplish anything you would with a desktop–with the added bonus of taking it with you. These highly versatile solutions also feature the fastest mobile Intel® Pentium® III processors and come preinstalled with Windows 2000. And for those who never know where work's going to take them, Quantex offers the T-Series. These notebooks offer desktop power in a slim package designed to save space in your briefcase. Powerful web-enhanced notebooks from Quantex–they're the only way to travel in the Internet Revolution.

QUANTEX T-1400

Intel® Pentium® III Processor 500MHz
14.1" XGA TFT Active Matrix Display
Slim Design (only 1.43" thick)
96MB SDRAM Memory
12GB Ultra ATA Hard Drive
Modular 24x Max Variable Speed CD-ROM Drive
ATI Mobility M1 Graphics w/8MB
Quantex Carrying Case
Microsoft Windows 2000 Professional
Corel WordPerfect Office 2000
Upgrade to Microsoft Office 2000 SBE for $129

$2199
Business lease:$80/Mo., 36 Mos.
Q-QUOTE NUMBER: csa06t05

QUANTEX T-1400

Intel® Pentium® III Processor 500MHz
14.1" XGA TFT Active Matrix Display
Slim Design (only 1.43" thick)
64MB SDRAM Memory
6GB Ultra ATA Hard Drive
Modular 24x Max Variable Speed CD-ROM Drive
Integrated Stereo Sound and Speakers
ATI Mobility M1 Graphics w/8MB
Quantex Carrying Case
MS Windows 98 Second Edition; Corel Office 2000
Upgrade to Microsoft Office 2000 SBE for $129

$1799
Business lease:$65/Mo., 36 Mos.
Q-QUOTE NUMBER: csa06t04

Peripheral Upgrades:
T-Series Mini-Docking Station...add $149.
W-Series Mini-Docking Station...add $179.
Smart Lithium Ion Battery ...$119.
PCMCIA Network Card...$129.
Quantex Deluxe Carrying case...$89.
Targus Defcon1 Security Lock...$49.
Canon BJC-85 Portable Color Printer...$299.

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Accelerate Your Business to the Speed of the Net

QUANTEX SB733s

Sensible Business Desktop

- Intel® Pentium® III Processor 733MHz
- *New* 128MB RDRAM Memory
- 20GB/7200rpm Ultra ATA Hard Drive
- 19" Monitor w/ Diamondtron NF CRT (18" vis, .25ag)
- Advanced Creative Labs Sound
- Intel® 10/100 PCI Fast Ethernet Adapter w/WOL
- nVidia TNT2 Vanta AGP Graphics, 16MB
- Microsoft Windows 2000 Professional/MS Office 2000 SBE

$1999

Business lease: $73/Mo., 36 Mos.

Q-QUOTE NUMBER: csa06b46

QUANTEX SB700t

Sensible Business Desktop

- Intel® Pentium® III Processor 700MHz
- 128MB High-Performance SDRAM Memory
- 15GB/7200rpm Ultra ATA Hard Drive
- 17" Digital Monitor w/ On-Screen Display (15.8" vis)
- Advanced Creative Labs Sound
- Intel® 10/100 PCI Fast Ethernet Adapter w/WOL
- nVidia TNT2 Vanta AGP Graphics, 16MB
- Microsoft Windows 2000 Professional/MS Office 2000 SBE

$1399

Business lease: $51/Mo., 36 Mos.

Q-QUOTE NUMBER: csa06b34

QUANTEX SB650v

Sensible Business Desktop

- Intel® Pentium® III Processor 650MHz
- 64MB High-Performance SDRAM Memory
- 15GB Ultra ATA Hard Drive
- 17" Digital Monitor w/ On-Screen Display (15.8" vis)
- Intel 2D/3D Graphics Accelerator
- Dynamic Wavetable Stereo Sound
- Intel® 10/100 PCI Fast Ethernet Adapter w/WOL
- Microsoft Windows 2000 Professional

$1099

Business lease: $40/Mo., 36 Mos.

Q-QUOTE NUMBER: csa06b44

QUANTEX SB600c

Sensible Business Desktop

- Intel® Celeron™ Processor 600MHz
- 64MB SDRAM Memory
- 10GB Ultra ATA Hard Drive
- 15" Digital Monitor w/ On-Screen Display
- Intel 2D/3D Graphics Accelerator
- Dynamic Wavetable Stereo Sound
- Intel® 10/100 PCI Fast Ethernet Adapter w/WOL
- MS Windows 98 Second Edition

$899

Q-QUOTE NUMBER: csa06b02

Standard Desktop Features: Floppy Drive, 2 USB Ports, 48x Max Variable Speed CD-ROM Drive, **ATX Mid-Tower Case: Chassis-lock, Removable HD Chassis and Power Supply**, 104-Key Keyboard, Microsoft Mouse, WfM Compliant, DMI2.0, ACPI, Cable Modem Ready, 3-Yr. Limitec Warranty, 24/7 Toll-Free Technical Support

Standard Workstation Features: Floppy Drive, 48x Max Variable Speed CD-ROM Drive, Altec Lansing ACS-21W Speakers, MS Natural Keyboard Elite, MS IntelliMouse, WfM Compliant, DMI2.0, ACPI, Cable Modem Ready, 3-Yr. Limited Warranty, 24/7 Toll-Free Technical Support

Quantex business systems feature **Windows 2000 Professional** pre-installed for a whole new dimension in business computing with greater reliability, ease-of-use, performance and Internet integration.

Quantex ZX800s Workstation

intel inside pentium® III

Quantex systems pre-installed with Windows 2000—rocket fuel to propel your business

Quantex Business Desktops and Workstations have everything your office needs to achieve success in the e-business age. Our SB-Series Business Desktops offer a stable business computing platform made even more reliable with Windows 2000 Professional. Pre-installed with the industry's best business OS, these systems are not only more reliable and easier to use, but they're very sensibly priced and great for businesses of all sizes. For businesses that require ultra-high performance on data and graphic intensive applications, Quantex offers the ZX-Series Workstations. These ultra high-performance systems are hardware optimized for extremely demanding applications like CAD/CAM and digital content creation. Plus, they're also pre-loaded with Windows 2000 Professional. So, no matter where your business is headed, Quantex business solutions give you the e-power to blast off at breakNet speeds.

QUANTEX ZX866xi

Leading-Edge Technology

- *Dual* Intel® Pentium® III Processors 866MHz
- 256MB RDRAM Memory (2GB max.)
- 18GB Ultra160/LVD SCSI Hard Drive
- Adaptec Ultra160/LVD SCSI Controller
- Intel® 10/100 PCI Fast Ethernet Controller w/WOL
- 21" Monitor w/ On-Screen Display (20" vis, .26dp)
- 3DLabs Oxygen GVX210, 64MB 3D AGP Graphics Card w/Dual-Monitor Support
- Advanced Creative Labs Sound
- Microsoft Windows 2000 Professional

$5999

Business lease: $207/Mo., 36 Mos.
Q-QUOTE NUMBER: csa06z13

QUANTEX ZX800x

Leading-Edge Technology

- Intel® Pentium® III Processor 800MHz
- Dual-Processor Upgradeable
- 128MB RDRAM Memory (2GB max.)
- 18GB Ultra160/LVD SCSI Hard Drive
- Adaptec Ultra160/LVD SCSI Controller
- Intel® 10/100 PCI Fast Ethernet Controller w/WOL
- 19" Monitor w/ Diamondtron NF CRT (18" vis, .25ag)
- 3DLabs Oxygen GVX1 3D AGP Graphics, 32MB
- Advanced Creative Labs Sound
- Microsoft Windows 2000 Professional

$3499

Business lease: $121/Mo., 36 Mos.
Q-QUOTE NUMBER: csa06z12

QUANTEX ZX800s

Leading-Edge Technology

- *New* Intel® Pentium® III Processor 800MHz
- Dual-Processor Upgradeable
- 128MB ECC SDRAM (1GB Max)
- 9GB Ultra2/LVD SCSI Hard Drive
- Adaptec Ultra2/LVD SCSI Controller
- Intel® 10/100 PCI Fast Ethernet Controller w/WOL
- 19" Monitor w/ Diamondtron NF CRT (18" vis, .25ag)
- 3DLabs Oxygen VX1 3D AGP Graphics, 32MB
- Advanced Creative Labs Sound
- Microsoft Windows 2000 Professional

$2499

Business lease: $91/Mo., 36 Mos.
Q-QUOTE NUMBER: csa06z30

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GSA Contract #GS-35F-0049K

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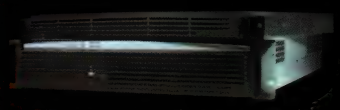
The Amazing Quantex Servers Built for Internet Overachievers

It's going to take more than just any run-of-the-mill server to give your users the type of web experience they're hungry for—content that's instantly available, seamless performance, better-than-ever richer graphics and sound. Enter the Quantex QX-Series Servers. In addition to being almost infinitely scalable, these servers are designed around Intel's new Pentium® III processor (with speeds up to 800Mhz), support up to an 8-way processor configuration, provide ultra-high availability, and deliver reliability unsurpassed. There's no contest. The QX-Series is the unbeatable solution for hosting and delivering the fullest, richest Internet experience possible—day in and day out.



Check out our new 1U & 2U Rack-mount e-business servers and appliances at www.quantex.com

QUANTEX QX5000ws

Reliable Web Server

- Intel® Pentium® III Processor 650MHz-800MHz
- Dual-Processor Upgradeable
- Intel L440GX+ Server Board
- 128MB ECC SDRAM (2GB Max)
- 9GB Ultra2/LVD SCSI Hot Swap HD (180GB max)
- Dual Channel Ultra2/LVD SCSI Controller
- Dual Peer PCI Buses; 6 PCI, 1 ISA Slot
- 5 Hot-Swap Drive Bays; 4 Fans
- Microsoft Windows 2000 Server
- Microsoft Front Page Web Creation & Management Tool
- Microsoft Internet Information Server
- Intel® EtherExpress™ Pro 100 Ethernet Adapter

Starting at $2599

Business lease starting at: $94/Mo., 36 Mos.

e-QUOTE NUMBER: csa06q51

QUANTEX QX5000

Workgroup Server

- Intel® Pentium® III Processor 650MHz-800MHz
- Dual-Processor Upgradeable
- Intel L440GX+ Server Board
- 128MB ECC SDRAM (2GB Max)
- 9GB Ultra2/LVD SCSI Hot Swap HD (180GB max)
- Dual Channel Ultra2/LVD SCSI Controller
- Dual Peer PCI Buses; 6 PCI, 1 ISA Slot
- 5 Hot-Swap Drive Bays; 4 Fans
- Intel® EtherExpress™ Pro 100 Ethernet Adapter
- Chassis-Intrusion Switch; Drive Bay Lock
- *Add AMI MegaRAID 466WS for $399*
- *Add NetWare 5.1 Server plus 5 connections for $949*

Starting at $1899

Business lease starting at: $69/Mo., 36 Mos.

e-QUOTE NUMBER: csa06q39

QUANTEX QX3000

Branch Office Server

- Intel® Pentium® III Processor 600MHz
- Intel 440BX Chipset
- Intel T440BX Server Board
- 128MB ECC SDRAM
- 9GB Ultra-Wide SCSI Hard Drive
- Integrated Ultra-Wide SCSI Controller
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- Intel® EtherExpress™ Pro 100 Ethernet Adapter
- *Add APC SmartUPS 700VA for $349*
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$1399

Business lease: $51/Mo., 36 Mos.

e-QUOTE NUMBER: csa06q34

Standard Features: Floppy Drive, 48x Max Variable Speed CD, ISC Management Console, Emergency Management Port, 104-Key Keyboard, MS Mouse, 3-Yr. Limited Warranty, 24/7 Toll-Free Dedicated Hardware Technical Support

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EPSON STYLUS SCAN 2500

HARDWARE

Epson Scores an All-in-One

★★★★
RATED 1 TO 5 STARS

Excellent black-and-white and color print quality; flatbed scanner

Slow print speed; no built-in fax modem

PRODUCT: Epson Stylus Scan 2500
COMPANY: Epson America
Long Beach, CA
800-463-7766, 562-981-3840
www.epson.com
MFR. EST. PRICE: $449

COMPUTER SHOPPER Price It!™ 24923
For real-time pricing, go to priceit.zdnet.com and enter number.

ALL-IN-ONE DEVICES THAT PRINT, SCAN, AND photocopy can be worth their weight in gold in home offices where space is at a premium. The Epson Stylus Scan 2500 raises the stakes in this product category by incorporating a 1,440x720-dpi color inkjet printer and a 600x2,400-dpi flatbed scanner for a low estimated price of $449.

The Epson Smart Panel software provides a simple interface for scanning documents into the included applications or your own programs. Although the Stylus Scan 2500 does not have a built-in fax modem, you can scan in documents for faxing using your system's own fax modem or an e-mail fax service, such as eFax.com. The unit provides both USB and parallel interfaces and a software bundle that includes Adobe PhotoDeluxe and Symantec WinFax Basic.

Output quality for text, graphics, and photos is nothing short of amazing, but the unit isn't particularly swift. In our testing, it took almost 14 minutes to print a simple 10-page Word document at 720 dpi. Printing this same document at 1,440 dpi took more than an hour. Because output quality is excellent at all resolutions, you may very well be satisfied with the quality you get at 360 dpi; our test document required 3 minutes and 18 seconds to print at this setting.

The front panel of the Stylus Scan 2500 contains an easy-to-use array of controls for color or black-and-white copying. When scanning a simple letter, the Stylus Scan 2500, which comes bundled with NewSoft's Presto OCR program, maintained a high accuracy rate. But the software was unable to reproduce the original formatting of a more complex multicolumn document and introduced a significant number of errors.

Multifunction devices always require some compromises. The Epson Stylus Scan 2500 is less expensive and produces better output than most, but it comes at the cost of slow print speeds.

—Neil Randall

SAMSUNG SYNCMASTER 570P PLUS

A Flat Feast For the Eyes

COMPUTER SHOPPER Best Buy June 2000

THE SAMSUNG SYNCMASTER 570P PLUS IS ONE of the more innovative flat-panel displays currently available. Selling for a competitive $1,139-estimated price, the 15-inch 570p Plus offers a convenient portrait display mode, image scaling for non-native resolutions, video-input capabilities, picture-in-picture video, and built-in stereo speakers.

The 570p Plus delivers a 200-to-1 contrast ratio, a 0.29-pixel pitch, and a native resolution of 1,024x768. It also easily pivots between landscape and portrait views. The latter choice lets you view an entire page vertically at a 768x1,024 resolution.

In testing with DisplayMate Technologies' DisplayMate utility, the 570p Plus exhibited solid geometry and vibrant colors. Although the focus was razor-sharp at its native resolution, it got noticeably softer at all other resolutions, including the maximum setting of 1,280x1,024. Using the 570p Plus's controls, we were able to quickly compensate for all moiré patterns and pixel tracking created by our tests. Our evaluation unit didn't have any bad pixels, but Samsung has a liberal (though detailed) replacement policy for LCDs with defective pixels.

The 570p Plus can provide a full-screen display of video images from a VCR or other source via its composite or S-Video inputs. We tested the display's video input with output from a laserdisc player, but the image looked a bit grainy. You can also use the 570p Plus' picture-in-picture feature to view a video source in a small frame onscreen while you use other applications.

★★★★
RATED 1 TO 5 STARS

Portrait mode; composite and S-Video inputs; excellent display quality at native resolution

Soft focus at non-native resolutions; mediocre audio

PRODUCT: Samsung SyncMaster 570p Plus
COMPANY: Samsung Electronics
San Jose, CA
800-726-7864, 201-229-4000
www.samsungmonitor.com
MFR. EST. PRICE: $1,139

COMPUTER SHOPPER Price It!™ 24926
For real-time pricing, go to priceit.zdnet.com and enter number.

The unit's built-in speakers are fine for casual listening, though they sound a bit tinny and are prone to distortion. The onscreen display is straightforward and easily accessible from the front panel.

Although prices on LCDs are expected to decrease slightly by year's end, flat-panel displays are still luxury purchases for most users. Still, the excellent image quality and impressive feature set of the Samsung SyncMaster 570p Plus make it a superior option for those who can afford it.

—Megan Loncto

SECTION CONTINUES ON PAGE 116

bringing great values home.

Dell4me™ is all about helping you get the most out of your PC. Here are some of the latest services and resources designed for business, pleasure, and education that we're putting behind our pledge:

1GHz INTEL® PENTIUM® III PROCESSORS. For pure processing power on our Dell™ Dimension™ desktops. Supplies are limited, don't get left in the dust — www.dell4me.com/1GHz

DELL MOVIE STUDIO. The magic of the movies made easy. Capture, create, and share movies using the factory installed 1394 Card with MGI VideoWave® III Digital Editing Software, Dell edition. Available on select Inspiron™ and Dimension systems — www.dell4me.com/moviestudio

NEXT-BUSINESS-DAY SERVICE.[4] Available with every Dell Home System. If you have a problem, call 24x7 for a tech to troubleshoot with you over the phone. If hardware support is needed after phone-based troubleshooting, a technician can be sent to your home.

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- Intel® Celeron™ Processor at 450MHz
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- Modular 24X Max CD-ROM
- 2X AGP 8MB ATI RAGE Mobility™-M1 3D Video
- 3D Positional Sound with Wavetable
- 53WHr Lithium Ion Battery with ExpressCharge™ Technology
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 1-Yr Limited Warranty[2]
- 1-Yr Next-Business-Day On-site Service[4]

$1499 As low as $41/Mo., for 48 Mos.[17]
E•VALUE CODE: **05813-800514**

DELL™ INSPIRON™ 5000

Performance and Mobility

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- 32MB SDRAM ■ 6.0GB[5] Ultra ATA Hard Drive
- Modular 32X Max CD-ROM
- 2X AGP 4MB ATI RAGE Mobility™-P 3D Video
- 3D Positional Sound with Wavetable
- 52WHr Lithium Ion Battery
- Internal 56K Capable[6] V.90 Fax Modem
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2]
- 3-Yr Next-Business-Day On-site Service[4]

$1999 As low as $55/Mo., for 48 Mos.[17]
E•VALUE CODE: **05813-800519c**

DELL™ INSPIRON™ 5000

Performance and Mobility

- Intel® Pentium® III Processor at 600MHz Featuring Intel® SpeedStep™ Technology[34]
- 15" Super XGA+ TFT Display
- 64MB SDRAM ■ 6.0GB[5] Ultra ATA Hard Drive
- Modular 32X Max CD-ROM
- 2X AGP 8MB ATI RAGE Mobility™-P 3D Video
- 3D Positional Sound with Wavetable
- 52WHr Lithium Ion Battery
- Internal 56K Capable[6] V.90 Fax Modem
- MS® Works Suite 2000 ■ MS® Windows® 98, SE
- 3-Yr Limited Warranty[2]
- 3-Yr Next-Business-Day On-site Service[4]

$2479 As low as $68/Mo., for 48 Mos.[17]
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Affordable Desktop Solution

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- Intel® 3D AGP Graphics
- 40X Max CD-ROM Drive
- SoundBlaster 64V PCI Sound Card
- PC Speakers
- V.90 56K Capable[6] PCI DataFax Modem for Windows®
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

$799 As low as $22/Mo., for 48 Mos.[17]
E•VALUE CODE: **05813-500507**

DELL™ DIMENSION™ L600r

Affordable Desktop Solution

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- 64MB SDRAM
- 4.3GB[5] Ultra ATA Hard Drive
- 15" (13.8" vis) E550 Monitor
- Intel® 3D AGP Graphics
- 40X Max CD-ROM Drive
- SoundBlaster 64V PCI Sound Card
- PC Speakers
- V.90 56K Capable[6] PCI DataFax Modem for Windows®
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

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E•VALUE CODE: **05813-500508**

DELL™ DIMENSION™ XPS T700r

High Performance, Great Value

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- 16MB ATI RAGE 128 Pro
- 48X Max CD-ROM Drive
- Turtle Beach Montego® II A3D™ 320V Sound Card
- harman/kardon Speakers
- V.90 56K Capable[6] PCI Telephony Modem for Windows®
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

$1399 As low as $38/Mo., for 48 Mos.[17]
E•VALUE CODE: **05813-500514m**

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Cutting Edge Technology

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- 128MB RDRAM ■ 30GB[5] Ultra ATA HD
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- NEW 12X Max DVD-ROM Drive
- SB Live! Value Digital
- Harman Kardon HK-595 Surround Sound Speakers with Subwoofer
- V.90 56K Capable[6] PCI Telephony Modem for Windows®
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

$2599 As low as $71/Mo., for 48 Mos.[17]
E•VALUE CODE: **05813-500525**

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- HP® DeskJet® 932C, add $199
- Epson Stylus Color 860, add $199
- Epson Stylus Color 740, add $149

Scanners:
- HP® ScanJet® 6300Cse, add $399
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Power Protection:
- APC Back-UPS Office 500, add $99

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- Family Fun 5-Game Pack, Featuring Roller Coaster Tycoon,™[16] add $99

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- 1-Yr DellNet™ Internet Access[10] with 20MB of Online Access Backup,[12] add $99

intel inside
pentium® III

[10]Includes 150 hrs./month, plus $1.50/hr. (or fraction) over 150 hours. #800/888/877 access charged $4.95/hr. extra. Excludes taxes and telephone charges. Additional $1.00/hr. surcharge in HI and AK. [17]Monthly payments based on 13.99% APR. APR FOR QUALIFIED CUSTOMERS VARIES BY CREDITWORTHINESS OF CUSTOMER AS DETERMINED BY DELL FINANCIAL SERVICES L.P. Taxes & shipping charges extra, and vary; they are due with 1st payment unless included in the amount financed. Purchase Plan from Dell Financial Services L.P. to U.S. state residents (including D.C.) with approved credit, excluding AR and MN residents. Availability may be limited or offer may vary in other states.

[1]Prices, specifications, and availability may change without notice. Taxes and shipping charges extra, and vary. Cannot be combined with other offers or discounts. U.S. only. [2]For a copy of Guarantees or Limited Warranties, write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, Texas 78682. [4]At-Home or on-site service provided via third-party contract with customer. Availability varies. Technician will be dispatched, if necessary, following phone-based troubleshooting. To receive Next-Business-Day service, Dell must notify the service provider before 5pm (customer's time). Other conditions apply. [5]For hard drives, GB means 1 billion bytes; accessible capacity varies with operating environment. [6]Download speeds limited to 53Kbps. Upload speeds are less (about 30Kbps) and vary by modem manufacturer and online conditions. Analog phone line and compatible server required. [12]Online backup services provided by third-party agreement with the customer. Limited to 20MB of storage; additional space available at additional charge. Dell is not responsible for lost data. [16]Software, packaging and documentation differ from retail versions. [24]The processor may be reduced to a lower operating speed when operating on battery power. Intel, the Intel Inside logo, and Pentium are registered trademarks, and Intel SpeedStep and Celeron are trademarks of Intel Corporation. MS, Microsoft, IntelliMouse, and Windows are registered trademarks of Microsoft Corporation. HP and DeskJet are registered trademarks of Hewlett-Packard Corporation. Trinitron is a registered trademark of Sony Corporation. ©2000 Dell Computer Corporation. All rights reserved.

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PVW-500c-6

- Intel® Celeron™ processor 500 MHz
- 64 MB SDRAM
- 10 GB Ultra ATA Hard Drive
- 48X Max CD-ROM Drive[1]

Option A: Business Network

- Microsoft Windows® 2000 Professional
- 15" (.28dp) Monitor (13.8" viewable)
- Kingston 10/100 PCI Ethernet Adapter

Option B: Small/Home Office

- Microsoft Windows® 98
- 17" (.25dp) Monitor (16" viewable)
- 56K V.90 Modem for Windows[2]
- Amplified Stereo Speakers

Your Choice! **$799**

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PVW-600c-6

- Intel® Celeron™ processor 600 MHz
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- 17" (.25dp) Monitor (16" viewable)
- 48X Max CD-ROM Drive[1]

Option A: Business Network

- Microsoft Windows® 2000 Professional
- 64 MB SDRAM
- Kingston 10/100 PCI Ethernet Adapter

Option B: Small/Home Office

- Microsoft Windows® 98
- 128 MB SDRAM
- 56K V.90 Modem for Windows[2]
- Amplified Stereo Speakers

Your Choice! **$949**

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PVW-T600-6

- Intel® Pentium® III processor 600 MHz
- 64 MB SDRAM
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- 48X Max CD-ROM Drive[1]

Option A: Business Network

- Microsoft Windows® 2000 Professional
- 10 GB Ultra ATA Hard Drive
- 15" (.28dp) Monitor (13.8" viewable)
- 3Com Fast EtherLink XL PCI Adapter

Option B: Small/Home Office

- Microsoft Windows® 98
- 20 GB Ultra ATA Hard Drive
- 17" (.28dp) Monitor (16" viewable)
- 56K V.90 Modem for Windows[2]

Your Choice! **$999**

Venture T Series
PVW-T733-6

- Intel® Pentium® III processor 733 MHz
- 20 GB Ultra ATA 7200 RPM Hard Drive
- 3D AGP Graphics Card (8 MB)
- 17" (.25dp) Monitor (16" viewable)
- 48X Max CD-ROM Drive[1]

Option A: Business Network

- Microsoft Windows® 2000 Professional
- 64 MB 133 MHz SDRAM
- 3Com Fast EtherLink XL PCI Adapter

Option B: Small/Home Office

- Microsoft Windows® 98
- 128 MB 133 MHz SDRAM
- 56K V.90 Modem for Windows[2]
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Business Lease $64/mo. (24 months)

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intel inside
pentium® III

At Systemax, we're dedicated to helping you build your business with innovative technology, customized solutions and Superior Customer Support.

That's why we equip each PC with a powerful combination of business-minded hardware and software. Select Venture PCs come standard with the Microsoft® Windows® 2000 Professional operating system. Microsoft Windows 2000 combines the ease of use and familiarity of Windows 98 with the industrial power and security of Windows NT. Plus, the Systemax Venture T series also features the Intel® Pentium® III processor, the no-compromise solution for business computing.

With just one phone call or visit to our website, we can help you configure a Systemax Venture PC that fits your business needs perfectly. Then we'll get right to work assembling your new system in our ISO 9001 Certified facility. Next comes the best part. We back each system with a team full of smart, dedicated people who not only understand how to make computers work, but also understand how business works. People who are capable of giving Superior Customer Support—without taking up any extra desk space!

Venture T Series PVW-T800-6

- Intel® Pentium® III processor 800 MHz
- 128 MB 133 MHz SDRAM
- 30 GB Ultra ATA 7200 RPM Hard Drive
- nVidia® Vanta 4X AGP Graphics Card (16 MB)
- 17" (.25dp) Monitor (16" viewable)

Option A: Business Network
- Microsoft Windows® 2000 Professional
- 48X Max CD-ROM Drive[1]
- 3Com Fast EtherLink XL PCI Adapter

Option B: Small/Home Office
- Microsoft Windows® 98
- 8X DVD-ROM Drive
- 56K V.90 Modem for Windows[2]
- PCI Sound Card & Speakers

Your Choice! **$1629**
Business Lease $63/mo. (36 months)

Venture T Series PVO-T866-6

- Intel® Pentium® III processor 866 MHz
- 128 MB 133 MHz SDRAM
- 40 GB Ultra ATA 7200 RPM Hard Drive
- TNT2 M64 4X AGP Graphics Card w/ TV-Out (32 MB)
- 19" (.25dp) Monitor (18" viewable)
- CD-R/RW Drive
- PCI Wavetable Sound Card
- Amplified Stereo Speakers
- MS Office 2000 Small Business

Option A: Business Network
- Microsoft Windows® 2000 Professional
- 3Com Fast EtherLink XL PCI Adapter

Option B: Small/Home Office
- Microsoft Windows® 98
- 8X DVD-ROM Drive
- 56K V.90 Modem for Windows[2]

Your Choice! **$2299**
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$399
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HP LaserJet 2100se Printer
$699

[1]CD-ROM speeds are variable. Maximum speed shown. [2]Maximum data transfer rate may vary due to the particular modem you are communicating with, telephone lines and communication protocols.

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HARDWARE

HP DESKJET 952C

The Path to Perfect Prints

Computer Shopper Best Buy June 2000

ALTHOUGH IT'S CLEARLY NOT THE LEAST expensive inkjet printer on the market, Hewlett-Packard Co.'s $299.99-estimated DeskJet 952C makes a great impression with nearly flawless output quality for both text and images.

The 952C connects to your system by either a USB or parallel port. Using HP's PhotoREt III technology, the printer delivers up to 600-dpi black text and 2,400x1,200-dpi color output by way of its separate black-ink and three-color ink cartridges. Replacement cartridges come in two sizes, the largest of which will run you about 3.5 cents per page for black-text printing, and 6 cents per page for color graphics. Photo-printing expenses will be higher, because it requires using special photo paper and consumes more ink.

The printer's primary paper tray holds up to 100 sheets of 8.5x11-inch paper or 15 envelopes. In addition, a second tray handles up to 20 sheets of 4x6-inch photo paper. With the optional $79 Auto Duplexer, the 952C can also do duplex and booklet printing.

Gray-scale and color photos printed in Adobe Photoshop at the printer's higher resolutions looked superb. Producing documents containing a mixture of text and graphics showed one of the 952C's real strengths. Images printed on photo paper were especially stunning, exhibiting excellent detail and color saturation.

Using its Best Quality setting, the 952C is rated to print black-text pages at 4.4 ppm and color graphics at 2.5 ppm. But the printer actually performed significantly slower on our real-world tests. Our black-text Microsoft Word document printed at about 1.4 ppm, and our Adobe PageMaker test measured about 1.3 ppm for color graphics. When printing from Photoshop, a 6x7.5-inch photo took just under 12 minutes.

Following on the heels of the acclaimed Canon BJC-8200 and Epson Stylus Photo 750 inkjet printers, the HP DeskJet 952C is our new favorite for top-notch print quality. You might have to pay a bit more for the HP than for other inkjets, but it's worth it if you require the best-looking output. —*Matthew Klare*

★★★★
RATED 1 TO 5 STARS

Excellent output quality; USB and parallel connections; dedicated 4x6-inch photo tray

More expensive than the competition; relatively slow

PRODUCT: HP DeskJet 952C
COMPANY:
Hewlett-Packard Co.
Palo Alto, CA; 800-722-6538
www.hp.com
MFR. EST. PRICE:
$299.99

Computer Shopper Price It!™ 24927

For real-time pricing, go to *priceit.zdnet.com* and enter number.

PLAY SNAPPY VIDEO SNAPSHOT 4.0

Capture Images In a Snap

THE SNAPPY STILL-IMAGE VIDEO DIGITIZER HAS been around for several years. It still captures excellent-looking images from your videos, and now with the $169.95-estimated Snappy Video Snapshot 4.0, Play has given it the equivalent of a software face-lift.

Snappy is a small box—about the size of a pack of cigarettes—that plugs into your PC's parallel port. It precludes the use of any other parallel-port devices, such as a printer or scanner, while it's attached. Snappy inputs video via a standard composite-video jack, into which you can plug a camcorder, VCR, or other video source. You can capture images up to a maximum resolution of 1,500x1,125 and save them in a variety of popular file formats, and even a few esoteric ones such as PIC and WMF.

The Snappy software interface has only a few simple controls, including a big Snap button that you press to grab an image. The SnapPad is new, however. It holds thumbnails of your original captured images, along with any modified versions created with the program's simple image-editing tools. These tools let you crop the picture and adjust the color and brightness.

Another new addition is the Picture Explorer, which lets you create thumbnail galleries of all of the image files scattered on your hard drive. The new Performer module, meanwhile, lets you create intricate slide shows quickly and easily, complete with music, sound effects, and elaborate transition effects. Snappy also bundles Adobe PhotoDeluxe Home Edition, a decent photo-editing package for novices.

Snappy is a classic, and the software updates make a lot of sense. But in these days of $50 USB video cameras, a $169.95 digitizer that requires you to supply a video camera and hogs up a parallel port is clearly a niche item. Still, if you want top-notch image quality and high-resolution stills with minimal fuss, you might find Snappy Video Snapshot 4.0 to be a bargain.

—*Sheldon Leemon*

★★★
RATED 1 TO 5 STARS

Easy to use; excellent image quality; high-resolution images

Expensive; no parallel port pass-through

PRODUCT:
Play Snappy Video Snapshot 4.0
COMPANY: Play
Rancho Cordova, CA
800-306-7529, 916-851-0800
www.play.com
MFR. EST. PRICE:
$169.95

Computer Shopper Price It!™ 24911

For real-time pricing, go to *priceit.zdnet.com* and enter number.

HP DIGITAL SENDER 8100C

NETWORKS

Get Your Message Through

COMBINING THE SIMPLICITY OF FAXING WITH THE convenience of e-mail, Hewlett-Packard's new Digital Sender 8100C blazes a new trail into the world of Internet appliances. With the push of a button, this $1,299-estimated device scans color or black-and-white paper documents and electronically whisks them to local or distant e-mail accounts as PDF or TIFF file attachments.

With an internal 10BaseT connection, the Digital Sender links directly to your network, with no need for a dedicated PC. But a skilled network administrator should set up the unit.

The Digital Sender can print directly to a networked JetSend-compatible printer, or send documents as faxes if you have an Internet fax provider. (The device has no fax modem of its own.)

The unit does have an elaborate, fax machine-like control panel, grafted atop a color flatbed scanner that measures roughly 12x12x19 inches (HWD). A small LCD and a compact, though oddly arranged, alphanumeric keypad provide access to the device's setup control and allow manual entry of e-mail addresses or fax numbers. The 8100C can also access addresses from an LDAP server.

The Digital Sender's address book can hold up to 200,000 e-mail and 2,048 fax addresses. An automatic document feeder tackles jobs up to 25 pages long and works fine with legal-size documents. The flatbed supports letter-size documents as well as three-dimensional objects such as books or magazines.

In our tests, the 15 to 20 seconds required to scan a page at 600 dpi matched HP's claims. However, transmission speeds will depend on the quality of your Internet connection. Internal compression automatically adapts to text and graphics, reducing the file size to a few hundred kilobytes.

Powerful and easy to use, the HP Digital Sender 8100C can be a handy communications tool that leaves the conventional PC-based scan-and-send routine in the dust.

—Winn L. Rosch

★★★★
RATED 1 TO 5 STARS

Easy way to electronically transmit paper documents

Expensive; requires setup by a network administrator; odd keypad layout

PRODUCT:
HP Digital Sender 8100C
COMPANY:
Hewlett-Packard Co.
Palo Alto, CA
800-613-2222, 650-857-1501
www.digitalsender.hp.com
MFR. EST. PRICE: $1,299

COMPUTER SHOPPER Price It!™
2 4 9 2 5
For real-time pricing, go to *priceit.zdnet.com* and enter number.

PC TRANSPLANT PRO

PC Migration Made Easier

TRANSFERRING PERSONAL SETTINGS FROM AN OLD PC to a new one can be a time-consuming and aggravating process. Fortunately, Altiris has developed PC Transplant Pro, an automated wizard that makes PC migration a more manageable, if no more enjoyable, task.

PC Transplant costs $245 for five nodes, $595 for 25 nodes. It works by creating a self-executing file, called a Personality Package, that contains user-specific settings such as Internet shortcuts, data files, and applications. The PC Transplant wizard helps specify which settings—including screen savers, sounds, or network-configuration information—get transferred. Altiris also supports migration of Microsoft Word and Excel, Netscape, and more than 40 other applications.

PC Transplant lets you specify a particular directory or file type to transfer. The software scans the hard drive and can transfer the files to an identical directory structure or to a new directory altogether—a convenient option when consolidating files. For added security, Personality Packages can be password-protected, and an undo file can be created with a checkbox. Once you create the Personality file, you can store it on a shared network drive and execute it from the target PC.

Altiris claims that PC Transplant can migrate any OS to any other OS. In a Windows 95 to Windows 98 migration test, however, a few of the PC's settings fell through the cracks. Printer settings, DNS IP settings, and dial-up networking settings were not transported correctly. The migration process itself was fast, taking only about 5 minutes.

A Personality Package can also be saved as a template file, easing mass migrations for IS departments. Unfortunately, PC Transplant is not yet integrated into Altiris' parent PC-management solution, eXpress, so administrators need to manually perform migrations on their clients' PCs or use the command line for remote management.

PC Transplant Pro is a good attempt at easing the IT migration process. But without more application support and centralized administration, it's more of a tool than a solution.

—Rob Schenk

★★★
RATED 1 TO 5 STARS

Eases the desktop migration process; copies entire directory structure; can consolidate file types

Lacks integration with a centralized management console; needs additional application support

PRODUCT:
PC Transplant Pro
COMPANY: Altiris
Lindon, UT; 888-252-5551
www.altiris.com
REQUIRES: 16MB RAM; network card with TCP/IP installed and configured; Windows 95, 98, 2000, or NT 4.0
DIRECT PRICE: $245 (five nodes); $595 (25 nodes)

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DELL INSPIRON 3800

A $2K Notebook For Y2K

AT FIRST GLANCE, IT'S NOT EASY TO SPOT A LOT OF DIFFERENCE between Dell's Inspiron 3800 and last year's outstanding 3700. Look under the hood, however, and you'll start to see how Dell has improved this award-winning consumer notebook.

Most notably, this year's model comes in a complete range of processors, from the top-shelf SpeedStep-enabled Pentium III performance line to the Celeron value chips. Our $2,026 evaluation unit was rigged with a 500MHz Celeron engine, 64MB of RAM, a 6GB hard drive, a 14.1-inch XGA active-matrix display, and 8MB of graphics memory.

Though reasonably priced, the Inspiron 3800 nonetheless delivered some excellent performance results. That's due in part to the new 100MHz front-side bus (aside from the 450MHz CPU, previous Celerons had a 66MHz bus), boosting the 3800's performance to the level of a Pentium II chip of the same speed. The Inspiron 3800 logged a Winstone score of 18.7, which was slightly better than that of a similarly equipped high-end 450MHz Pentium III-based notebook.

The Inspiron 3800 is equally adept at graphics. Its score of 21.5 on the 3D WinMark 2000 test proves that it's all the machine you need for productivity applications. And its ATI Rage Mobility-M1 graphics chip delivers decent Direct3D performance, packing enough 3D power for an intense game of Half-Life, should you need a little "X-Files"-style intrigue in your day.

Battery performance is excellent. The unit lasted 3 hours and 52 minutes on the BatteryMark 3.0 test.

Options abound with this fairly portable 7.2-pound, 1.6x12.6x9.9-inch (HWD) unit, enabling you to balance power and price to suit your needs. Economize with a bottom-end 450MHz Celeron processor with 32MB of SDRAM and a 12.1-inch TFT screen for just over $1,500. Or go for broke with a 650MHz Pentium III with 512MB of RAM, an 18GB hard drive, CD-RW, a network adapter, and a 14.1-inch screen for roughly $5,800.

This level of configurability is possible, in part, because of the Inspiron 3800's media bay. You can hot-swap the unit's included floppy drive with a 24x CD-ROM drive. Or you can purchase a range of options that include a CD-RW drive, a DVD-ROM drive, a second hard drive, an extra battery, an Iomega Zip 250, or an LS-120 SuperDisk drive. Dell includes an adapter cable that lets you attach the internal floppy drive to the parallel port, handy when you need simultaneous access to a floppy disk and a CD-ROM.

Another bright spot is the display, which is crisp and evenly lit. Our test unit had a single bad pixel, which would not warrant a replacement. (Dell handles display replacements on a case-by-case basis.) A VGA port allows connection of an external monitor, and an S-Video connector enables you to send presentations to televisions or camcorders.

Unlike the video systems of older notebooks, the Inspiron 3800's can stretch and anti-alias lower-resolution applications to fill the 1,024x768-resolution screen with no jagged edges or letterbox effect. On the audio side, the 3800's side-mounted stereo speakers provide sound that's about as good as notebooks get.

The 87-key keyboard is also top of the line, with good spacing and a deep 3mm key travel. The DualPoint setup provides both a touch pad and a pointing stick, each with its own pair of buttons. If you find that your thumbs sometimes hit the touch pad and send the cursor scurrying to far-flung regions of the screen, you can disable the touch pad.

Other features include new color schemes. In addition to Tahoe blue, Dell now offers the Inspiron in midnight gray, forest green, or Sierra maroon. There's no iMac emulation here: The colors are subtle and muted. The texture of the case, which resembles fabric, may not appeal to some, but it makes minor scratches much less obvious than those on a smooth case.

The 3800 includes a full complement of expansion ports, including serial, parallel, SVGA, audio, and PS/2 ports, plus a single USB port. The two PC Card slots have dummy plastic inserts instead of doors for protection, which is not necessarily a bad thing, considering how easily those little doors break off. An optional port replicator is also available.

Dell bundles in Microsoft Works 2000, which is comprehensive enough for a productivity-oriented consumer. Unfortunately, while its higher-end 5000- and 7000-series notebooks come with three-year warranties, Dell offers only a single year of coverage for the Inspiron 3800. Three years of protection—always a smart idea for hardware you'll be constantly moving around—will set you back an additional $149.

With its good performance and exceptional battery life, the Dell Inspiron 3800 warrants a close look by almost any notebook shopper. And its broad range of configuration options makes it appealing to just about anyone. —*Denny Atkin*

★★★★
RATED 1 TO 5 STARS

Highly configurable; good performance; great battery life

Short warranty

SYSTEM: Dell Inspiron 3800
COMPANY:
Dell Computer Corp.
Round Rock, TX; 800-388-8542
www.dell.com
AS TESTED: 500MHz Celeron; 64MB SDRAM; 6GB hard drive; 24x CD-ROM drive; ATI Rage Mobility-M1 graphics chip with 8MB SGRAM; 14.1-inch XGA active-matrix LCD; ESS Maestro-2E audio chip; integrated V.90 modem; touch pad and pointing stick; Microsoft Works Suite 2000
DIRECT PRICE: $2,026

COMPUTER SHOPPER Price It!™
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The new TravelMate 600 Series—*with CD-RW drive*—gives a whole new meaning to the term "all-in-one notebook." Now you can write and rewrite 650MB of portable data, eliminating the need for a floppy drive. Plus you get a large, crisp 13.3" XGA display secured by a magnesium-alloy chassis. With both an integrated modem and Ethernet, you'll easily connect anywhere. Even so, this notebook weighs only 5.41 pounds and is a mere 1.29" thin. And all this for a lot less than you'd expect. Acer—we hear you.

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800.986.2261

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MOBILE

IBM THINKPAD 600X 5FU

A Travel Companion For Thinkers

THE IBM THINKPAD 600X 5FU IS A BUSINESS-MINDED MACHINE WRAPPED in a sleek case that will make you take notice of its great looks and intelligent engineering. But your eye will also be drawn to its hefty $3,899 price.

Powered by Intel Corp.'s SpeedStep-enabled 650MHz Mobile Pentium III processor, the 600X comes with accoutrements that mix business with pleasure. Loaded with 64MB of SDRAM, a 12GB hard drive, an internal DVD-ROM drive, and a 56Kbps V.90 modem, the unit can tackle any productivity application—and then screen movies after hours.

Its UltraBay delivers flexibility to handle options like a second battery, hard drive, or Zip drive while also allowing you to hot-swap the 6x DVD-ROM for the 1.44MB floppy drive in the modular bay. The floppy drive also can be used externally with a proprietary cable.

The entire 5.6-pound package fits into a 1.4x11.8x9.4-inch (HWD) case—just the right size and weight to slip into a standard briefcase and be carried without muscle strain.

The ThinkPad watches its weight by employing a 13.3-inch TFT. Though not as spacious as the 14- and 15-inch models, its crisp 1,024x768 resolution is more than adequate for spreadsheets and word documents. The panel itself is well within the boundaries of the lid edges, so the top feels stable and solid enough to take a bit of rough handling. In fact, we couldn't help noticing the overall sturdiness of this model, from port covers that stay attached when open to the machine's tight, battened-down feel when the lid is closed.

The ThinkPad 600X 5FU occupies a nice range in the spectrum of notebook size. It's far more comfortable to lug around than 9-pound desktop replacements, and it's more full-featured and easier to use than ultralight mini-notebooks. Most notably, its keyboard is responsive and roomy, with an extended palm-rest area. The unit's Press-to-Select TrackPoint is another solid feature, allowing you to press the pointing stick instead of the actuation buttons.

The unit's high price can be partially attributed to the SpeedStep 650MHz Pentium III processor, which operates at full speed when plugged in and drops down to a battery-saving 500MHz when untethered. Results on the Business Winstone 99 and BatteryMark 3.0 tests reveal a slight but noticeable difference. In overall performance, the ThinkPad chugged along roughly 10 percent faster in performance mode, achieving a Winstone rating of 22.4, compared with a 20.4 score in battery-optimized mode.

As for battery life, the unit eked out only 8 minutes more operating time in battery-optimized mode, lasting for 2 hours and 52 minutes; running at 650MHz, it sputtered after 2 hours and 44 minutes. This somewhat underwhelming battery life is a trade-off that's common in systems that sacrifice big batteries for portability.

Another less-than-stellar result is the graphics performance. On 2D business applications, performance is perfectly acceptable for the notebook's business-user target. The ThinkPad's 3D capabilities are hindered by its Neo-Magic MagicMedia-256ZX graphics adapter, which has only 4MB of SGRAM. This isn't likely be a great concern for corporate users, however, unless they have a penchant for late-night Quake deathmatches.

On the upside, the ThinkPad 600X delivers a good variety of connection options, including USB, serial, parallel, and infrared ports, as well as one Type III or two Type II PC Card slots. You'll also find stereo audio output and input jacks, and a video plug for hooking the system up to a TV, should the need arise during presentations or DVD screenings. The machine can punch up PowerPoint slides simultaneously on its LCD screen and an external monitor. A built-in Ethernet port is the only missing link.

The three-year warranty is a nice security blanket against potential problems. For added insurance, IT managers and users alike will appreciate the ConfigSafe EZ software, which, in the event of a major problem with the hard drive, allows you to restore the system to a previously captured snapshot of the configuration. The unit also comes preloaded with ThinkPad Configuration, an interface that makes managing the unit's components easier.

Those who value quality—and who have cash to spare—will appreciate the solid IBM ThinkPad 600X 5FU. It's the right mix of components in the right form factor.

—John R. Quain

★★★★
RATED 1 TO 5 STARS

Sleek; good components; long warranty

Expensive; no built-in Ethernet

SYSTEM:
IBM ThinkPad 600X 5FU
COMPANY: IBM Corp.
Armonk, NY; 800-426-7255
www.ibm.com
AS TESTED: 650MHz Mobile Pentium III; 64MB SDRAM; 12GB hard drive; 6x DVD-ROM drive; 13.3-inch XGA LCD; NeoMagic MagicMedia256ZX graphics chip with 4MB SGRAM; 3D sound with Sound Blaster Pro support; V.90 modem; TrackPoint; Lotus SmartSuite Millennium Edition
DIRECT PRICE: $3,899

COMPUTER SHOPPER Price It!™ 24947

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XIRCOM REALPORT2 MODEM 56 GLOBALACCESS

MOBILE

Fast Net, No Dongles

YOU DON'T SEE MUCH INNOVATION FROM MANUfacturers of PC Card devices, primarily because PC Cards' small size and rigid form factor leave little room for development. Xircom, however, is doing its part to deal a good hand: Its inventive RealPort2 connectivity cards allow users to stack a combination of cards that forgo irksome dongles and pop-out connectors.

Xircom achieves this flexibility by building the RJ-11 and RJ-45 jacks right into the edge of the PC Cards. The RealPort2 line includes 56Kbps modems, cell-phone wireless data cards, and Ethernet connectors.

We looked at the $228 RealPort2 Modem 56 GlobalAccess card, which is optimized for use with cell phones around the world. The device targets the corporate market with its RealView utility, which allows IT managers to provide modem firmware updates, as well as configure and retrieve status information stored on the card (such as driver versions and wireless capabilities).

The GlobalAccess device occupies the same physical space as a Type III PC Card and plugs into a Type II slot. All RealPort2 cards interlink with other RealPort2 cards so that they can plug into adjacent Type II slots without blocking access to each other. This design enables you to mix and match a variety of RealPort2 cards, thereby addressing just about any connectivity need. But you can't simultaneously install a non-RealPort2 card, which means you can't use third-party peripherals that employ traditional Type II PC Cards.

Setup and installation of the GlobalAccess was straightforward, and we were connected to the Net in a matter of minutes. The indicator lights that flash different colors, depending on the activity of the connection, are a nice touch.

You can install the cards on systems running Windows 95, 98, 2000, or NT. The hardware comes with a limited lifetime warranty, and the software is covered for two years.

With the flexibility to be used with the rest of the line of RealPort2 cards, the RealPort2 Modem 56 GlobalAccess makes for a winning hand. At $228, however, you'll need to be flush with cash.

—Raymond M. Padilla

★★★★
RATED 1 TO 5 STARS

Innovative design; flashing indicator lights; management software

Won't fit alongside non-RealPort2 PC Cards

PRODUCT: Xircom RealPort2 Modem 56 GlobalAccess
COMPANY: Xircom
Thousand Oaks, CA
800-438-4526
www.xircom.com
MFR. EST PRICE: $228

COMPUTER SHOPPER Price It!™ 24944

For real-time pricing, go to *priceit.zdnet.com* and enter number.

SONY MEMORY STICK WALKMAN

Little Stick Carries A Big Price

SONY ENGINEERS ITS CONSUMER ELECTRONICS with a masterful blend of style and quality, so it's not exactly astonishing that the $399 Memory Stick Walkman is one of the most expensive MP3 players on the market. But despite its great looks and nice audio, the Walkman relies on proprietary software that makes converting and sharing digital music annoyingly cumbersome.

The svelte, purplish-blue Walkman is about the size of a salt shaker and weighs a feathery 2.5 ounces. The small case limits the size of the display to three 10-character lines, but navigation through albums, files, and player settings is straightforward. The small screen also does a solid job of scrolling track titles and artist names across the display.

The Walkman has no onboard memory. Instead, it comes with a single 64MB MagicGate Memory Stick that can be used in other Sony consumer products, such as cameras and camcorders. The module can store about 90 minutes of music compressed at 105Kbps. Additional modules cost $90 and $150 for 32MB and 64MB, respectively.

Because the device connects to a computer's USB port, shuttling files between the player and PC is quick work. We completed a 64MB download in about 3 minutes.

The sound quality on the Walkman is, for the most part, clear and sufficiently loud. Like most MP3 players, the unit lacks a full-function equalizer, but the three bass settings are capable of producing rumbling thuds. Unlike many MP3 players, the Walkman comes with a rechargeable lithium-ion battery, which is good for about 4 hours of continuous playback.

The major strike against the Memory Stick Walkman, besides its stratospheric price, is the proprietary OpenMG Jukebox software. The software allows you to play MP3 files on your PC, but Sony requires that you convert the files to its ATRAC3 format before downloading them to the Walkman. Once this is done, you can't share files with other players.

The Memory Stick Walkman is a solid, albeit pricey, way to convert and listen to your existing music collection as digital files. Just don't expect to share the wealth.

—Dan Costa

★★
RATED 1 TO 5 STARS

Extremely portable; long-lasting rechargeable battery; intuitive navigation

Proprietary software and memory module; expensive

PRODUCT: Sony Memory Stick Walkman
COMPANY: Sony Electronics
Park Ridge NJ; 800-222-7669
www.sony.com
MFR. EST. PRICE: $399

COMPUTER SHOPPER Price It!™ 24942

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MOBILE

ACER TRAVELMATE 736TL

Fit for the Desktop Or Roadway

IF YOU'RE A CORPORATE GO-GETTER WHO CRAVES POWER, FULL-ON features, and battery life that spans the continent, Acer's TravelMate 736TL may be just the notebook for you. At $3,499, however, you might have to be a pretty high-flying exec to sneak this one past your company's bean counters. Fortunately, you get what you pay for.

The 736TL, which is powered by a 650MHz SpeedStep Pentium III, ably addresses the needs of business users. On the BatteryMark 3.0 test, it persevered for 5 hours and 20 minutes in battery-optimized mode—the longest battery life we've seen—and 3 hours and 37 minutes in performance mode. The movie-loving executive will resent the omission of a DVD-ROM drive in favor of a more practical CD-ROM, but this is a good example of how Acer anticipates the true needs of corporate users. Those who like to screen their own movies in flight can spring for the optional $399 DVD-ROM drive, which fits in the unit's single modular bay. The 736TL also comes with an integrated 1.44MB floppy drive.

The 736TL is particularly well-suited to demanding execs, offering 128MB of SDRAM, a 15-inch XGA active-matrix screen, a 3D-capable graphics chip, and an 18GB hard drive.

These components work together to deliver peak performance. The 736TL achieved a Business Winstone 99 score of 25.1 in 650MHz performance mode, and 22.6 in 500MHz battery-optimized mode, putting it in the same class as its peers. Like all SpeedStep-enabled systems, changing modes simply involves accessing the utility found in the taskbar.

The ATI Rage Mobility-M1 graphics chip with 8MB of SDRAM is a capable 3D solution. And all graphics, 3D or otherwise, will display nicely on the unit's luminous 15-inch XGA screen.

The 736TL's chassis is well-engineered. This 7-pounder is clad in a silvery magnesium-alloy chassis and measures a reasonably svelte 1.4x12.8x10.7 inches. Its NXT flat-panel speakers are mounted at the back of the display, and while they won't impress a large audience, they're more than adequate for a small group. Most business notebooks don't address the audio needs of executives, so it's nice to see someone is paying attention. The volume dial on the side of the case allows for fast, convenient adjustments.

Other nice design touches include integrated 10/100 Ethernet and V.90 modem jacks, which free the PC Card slots for third-party peripherals. The CD-ROM drive and battery are removable, and the hard drive is also easily accessed, although you'll need a screwdriver to remove it.

The 736TL's keyboard and touch pad are top-notch. The 84-key keyboard is well-spaced and comfortable, and the touch pad is big enough to send the cursor traveling across the screen with one swipe of the finger. A scroll button below the touch pad makes navigation in Word documents and Web pages a breeze.

The 736TL contains the usual array of ports—parallel, serial, PS/2, USB, VGA, and S-Video—as well as audio jacks for headphones, external speakers, and a microphone.

The 736TL also comes with a solid software bundle, most of which caters to business users. A system-recovery CD backs you up in case you need to reformat the hard drive, and the TimeMachine utility saves a snapshot of your system settings, enabling you to roll the settings back to a working state should you install software that causes glitches. We were a bit mystified by Acer's inclusion of Microsoft Works 2000, however. A version of Office, or no software at all, would seem more appropriate for business users.

The only area where the 736TL is lacking is the warranty: Its one-year parts-and-labor guarantee is a bit deficient when compared with its rivals. But Acer's 24-hour-daily, toll-free technical support is good for the life of the unit. An upgrade to a three-year warranty will cost you $198.

With enduring battery life, a robust configuration, and a pleasing design, the TravelMate 736TL is a great desktop displacer for the corporate set.

—Raymond M. Padilla

★★★★
RATED 1 TO 5 STARS

Long battery life; great components; good design
Short warranty

SYSTEM:
Acer TravelMate 736TL
COMPANY:
Acer America Corp.
San Jose, CA; 800-733-2237
www.acer.com/aac
AS TESTED: 650MHz Pentium III; 128MB SDRAM; 18GB hard drive; 15-inch XGA active-matrix LCD; 24x CD-ROM drive; ATI Rage Mobility-M1 graphics chip with 8MB SDRAM; ESS Solo-1 audio chip; V.90 modem and 10/100 Ethernet jacks; touch pad with scroll button; Microsoft Works 2000
MFR. EST. PRICE: $3,499

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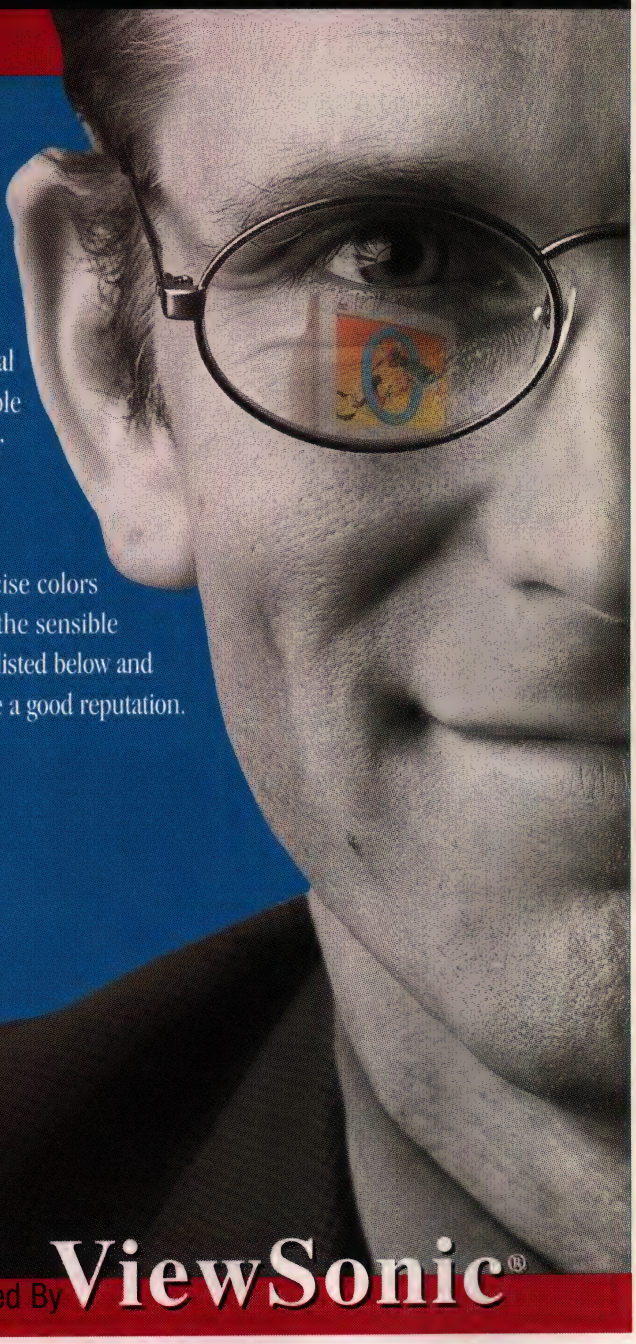
SECTION CONTINUES ON PAGE 128

Sensible never looked so good.



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Viewable Image Size	19.6"	18"	16"	16"	13.8"	13.8"	13.2"
Horizontal Dot Pitch	.22mm	.23mm	.21mm	.23mm	.24mm	.24mm	.25mm
Maximum Resolution	1,600 x 1,200	1,600 x 1,200	1,600 x 1,200	1,280 x 1,024	1,280 x 1,024	1,024 x 768	1,024 x 768
Optimal Resolution	1,280 @ 88Hz	1,280 @ 80Hz	1,280 @ 80Hz	1,024 @ 87Hz	1,024 @ 86Hz	800 @ 88Hz	800 @ 76Hz

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In California: 626.854.3428
www.shopprostar.com

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8293

Common Features

- 102-key Keyboard with Numeric Keypad
- 256KB On-Die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- Removable 6.0GB, 12.0GB, or 18.0GB Hard Drive opt.
- Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120, Iomega Zip Drive, or 2nd HDD
- 3D Surround Sound with Hardware Wavetable
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- PCMCIA 56K Capable[3] V90 Modem
- 75.6w Smart Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 1 IEEE 1394 Port & 1 Video-In Port
- 2 USB Ports & 1 TV-Out Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- Microsoft® Windows® 98
- Carrying Case and AC Adapter

15.1" XGA Active Matrix Display
Mobile Pentium® III Processor 600MHz
Featuring Intel® SpeedStep™ Technology
128MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
6X[1] Max. DVD-ROM Drive **$2545**

15.1" XGA Active Matrix Display
Mobile Pentium® III Processor 700MHz
Featuring Intel® SpeedStep™ Technology
128MB 100MHz SDRAM expandable to 256MB
Removable 18.0GB Hard Drive[4]
6X[1] Max. DVD-ROM Drive & LS-120 Drive **$3045**

2893

Common Features

- 256KB On-Die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- Removable 6.0GB, 12.0GB, or 18.0GB Hard Drive opt.
- 3.5" 1.44MB Floppy Disk Drive
- 3D Surround Sound
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 1 Type II PCMCIA Slot which supports ZV-Port and Card Bus
- Built-in 10/100 Ethernet Lan Adapter
- Smart Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 2 USB Ports
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- Microsoft® Windows® 98
- Carrying Case and AC Adapter
- Slim Notebook: 12.8"w x 10.15"d x 1.49"h

15.1" XGA Active Matrix Display
Intel® Pentium® III Processor 500MHz
64MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
24X[2] Max. CD-ROM Drive (6X[1] Max. DVD opt.) **$2145**

15.1" XGA Active Matrix Display
Mobile Pentium® III Processor 600MHz
Featuring Intel® Speed Step™ Technology
64MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
24X[2] Max. CD-ROM Drive (6X[1] Max. DVD opt.) **$2245**

3593

Common Features

- 256KB On-Die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- Removable 6.0GB, 12.0GB, or 18.0GB Hard Drive opt.
- Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120 or 2nd HDD
- 3D Surround Sound with Hardware Wavetable
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- PCMCIA 56K Capable[3] V90 Modem
- Smart Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 1 IEEE 1394 Port
- 2 USB Ports & 1 TV-Out Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- Microsoft® Windows® 98
- Carrying Case and AC Adapter
- Slim Notebook: 12.4"w x 10.1"d x 1.4"h

14.1" XGA Active Matrix Display
Mobile Pentium® III Processor 600MHz
Featuring Intel® Speed Step™ Technology
128MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
6X[1] Max. DVD-ROM Drive **$2295**

14.1" XGA Active Matrix Display
Mobile Pentium® III Processor 700MHz
Featuring Intel® Speed Step™ Technology
128MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
6X[1] Max. DVD-ROM Drive **$2595**

3153

Common Features

- 128KB On-Die L2 Cache (Intel® Celeron™ Processor)
- 256KB On-Die L2 Cache (Intel® Pentium® III Processor)
- 2X AGP 8MB ATI Rage Pro 3D Video
- Removable 6.0GB, 12.0GB or 18.0GB Hard Drive opt.
- Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120 or 2nd HDD
- 3D Surround Sound with Hardware Wavetable
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- Smart Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 2 USB Ports & 1 TV-Out Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- Microsoft® Windows® 98
- Carrying Case and AC Adapter
- Slim Notebook: 12.4"w x 10.1"d x 1.4" h

13.3" XGA Active Matrix Display
Intel® Celeron™ Processor 500MHz
64MB 100MHz SDRAM expandable to 256MB
Removable 6.0GB Hard Drive[4]
24X[2] Max. CD-ROM Drive (6X[1] Max. DVD opt.) **$1695**

13.3" XGA Active Matrix Display
Intel® Pentium® III Processor 600MHz
64MB 100MHz SDRAM expandable to 256MB
Removable 6.0GB Hard Drive[4]
6X[1] Max. DVD-ROM Drive **$1895**

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3153

Common Features

- > 256KB On-Die L2 Cache
- > 2X AGP 8MB ATI Rage Pro 3D Video
- > Removable 6.0GB, 12.0GB or 18.0GB Hard Drive opt.
- > Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120 or 2nd HDD
- > 3D Surround Sound with Hardware Wavetable
- > 2 Built-In Stereo Speakers and 1 Built-In Microphone
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- > PCMCIA 56K Capable[3] V90 Modem
- > Smart Lithium-Ion Battery
- > Infra Red, Wireless Fast IR Interface
- > 2 USB Ports & 1 TV-Out Port
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- > Microsoft® Windows® 98
- > Carrying Case and AC Adapter
- > Slim Notebook: 12.4"w x 10.1"d x 1.4" h

14.1" XGA Active Matrix Display
Intel® Pentium® III Processor 700MHz
128MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
6X[1] Max. DVD-ROM Drive **$2295**

14.1" XGA Active Matrix Display
Intel® Pentium® III Processor 750MHz
128MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
6X[1] Max. DVD-ROM Drive **$2495**

3153

Common Features

- > 128KB On-Die L2 Cache (Intel® Celeron™ Processor)
- > 256KB On-Die L2 Cache (Intel® Pentium® III Processor)
- > 2X AGP 8MB ATI Rage Pro 3D Video
- > Removable 6.0GB, 12.0GB or 18.0GB Hard Drive opt.
- > Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120 or 2nd HDD
- > 3D Surround Sound with Hardware Wavetable
- > 2 Built-In Stereo Speakers and 1 Built-In Microphone
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- > PCMCIA 56K Capable[3] V90 Modem
- > Smart Lithium-Ion Battery
- > Infra Red, Wireless Fast IR Interface
- > 2 USB Ports & 1 TV-Out Port
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- > Microsoft® Windows® 98
- > Carrying Case and AC Adapter
- > Slim Notebook: 12.4"w x 10.1"d x 1.4" h

14.1" XGA Active Matrix Display
Intel® Pentium® III Processor 600MHz
64MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
24X[2] Max. CD-ROM Drive (6X[1] Max. DVD opt.) **$2045**

14.1" XGA Active Matrix Display
Intel® Pentium® III Processor 600MHz
64MB 100MHz SDRAM expandable to 256MB
Removable 12.0GB Hard Drive[4]
6X[1] Max. DVD-ROM Drive **$2195**

9870

Common Features

- > 512KB L2 Synchronous Cache
- > 2X AGP 4MB ATI Rage Pro 3D Video
- > Removable 6.0GB or 12.0GB Hard Drive opt.
- > Built-In 3.5" 1.44MB FDD
- > 3D Surround Sound
- > 2 Built-In Stereo Speakers and 1 Built-In Microphone
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- > Smart Lithium-Ion Battery
- > Infra Red, Wireless Fast IR Interface
- > 1 USB Ports & 1 TV-Out Port
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- > A4 Size 86-Key Keyboard for Easy Typing
- > Microsoft® Windows® 98
- > Carrying Case and AC Adapter
- > 12.2"w x 9.4"d x 1.7"h

12.1" SVGA Active Matrix Display
AMD-K6®-2/450MHz Proccessor with 3DNow!™ Technology
64MB SDRAM expandable to 256MB
Removable 6.0GB Hard Drive[4]
24X[2] Max. CD-ROM Drive (6X[1] Max. DVD opt.) **$1445**

13.3" XGA Active Matrix Display
AMD-K6®-2/450MHz Proccessor with 3DNow!™ Technology
64MB SDRAM expandable to 256MB
Removable 6.0GB Hard Drive[4]
24X[2] Max. CD-ROM Drive (6X[1] Max. DVD opt.) **$1545**

5150

Common Features

- > 128KB On-Die L2 Cache
- > AGP 4MB S3 Pro 3D Video
- > Removable 6.0GB or 12.0GB Hard Drive opt.
- > 3.5" 1.44MB Floppy Disk Drive
- > 3D Sound Effect
- > 2 Built-In Stereo Speakers and 1 Built-In Microphone
- > Built-In Touchpad Pointing Device
- > 2 Type II PCMCIA Slots which support ZV-Port and Card Bus
- > NiMH Battery (Smart Lithium-Ion Battery opt.)
- > Infra Red, Wireless Fast IR Interface
- > 1 USB Port & 1 TV-Out Port
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > Jacks: 1 Headphone and 1 Microphone
- > A4 Size 86-Key Keyboard for Easy Typing
- > Microsoft® Windows® 98
- > Carrying Case and AC Adapter
- > Super Slim Notebook: 11"w x 9.4"d x 1.5"h

12.1" SVGA HPA Display
Intel® Celeron™ Processor 500MHz
32MB SDRAM expandable to 256MB
Removable 6.0GB Hard Drive[4]
24X[2] Max. CD-ROM Drive **$1245**

12.1" SVGA Active Matrix Display
Intel® Pentium® III Processor 500MHz
64MB SDRAM expandable to 256MB
Removable 6.0GB Hard Drive[4]
24X[2] Max. CD-ROM Drive (6X[1] Max. DVD opt.) **$1545**

[2]2X Minimum, [3]10X Minimum, [5]Download speeds limited to 53Kbps. Upload speeds are less. Actual data speeds will vary depending on line conditions. [4]Total HD accessible capacity may vary depending on operating environment. ©2000 by ProStar Computer Inc. All rights reserved. Intel, the Intel Inside logo and Pentium are registered trademarks, SpeedStep and Celeron are trademarks of Intel Corporation. AMD, the AMD logo, K6, 3DNow, and combinations thereof are trademarks of Advanced Micro Devices. All other companies and product names are trademarks of their respective companies. Dealer price is not subject to 30 days money back guarantee program. Opened software and shipping charges are non-refundable. 30-day money back guarantee does not include return freight or shipping and handling charge. Not responsible for photo or typographical errors. Price and terms subject to change without notice.

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MOBILE

AQCESS QBE PERSONAL COMPUTING TABLET

A Tablet for Walkabout Workers

TABLET COMPUTING ISN'T FOR EVERYONE, BUT FOR PROFESSIONALS who need to carry a full-fledged computer on their daily rounds—doctors, repair technicians, and insurance-claim adjusters, for instance—it can be a pretty compelling option. It's the consumer who wants a 7.5-pound portable tablet with notebook PC components that Aqcess Technologies targets with its Qbe Personal Computing Tablet.

Some may find the Qbe's price of $3,995 a bit much to swallow. But for professionals who need a powerful tablet computer that runs Windows 98, its convenience could outweigh the cost. By accommodating a variety of input means, the Qbe attempts to deliver keyboard- and mouse-free input methods, with varying degrees of success.

The Qbe (pronounced "cube") comes loaded with a 400MHz Mobile Celeron processor, 128MB of SDRAM, and a 12GB hard drive. The tablet's modular bay houses a 24x CD-ROM drive, which you can swap out for an optional DVD-ROM or CD-RW module. (Pricing for these add-ons was not set at press time.) The unit also includes an integrated Ethernet connection and 56Kbps modem, as well as two open Type II PC Card slots for options like wireless connectivity.

The Qbe's luminous 13.3-inch XGA display delivers good color quality and a roomy viewing area that makes it possible to review a great deal of data. But it lacks a cover, leaving the screen vulnerable to scratches and more serious damage, and its shiny glare makes it difficult to view at certain angles. You can rotate the display's view horizontally or vertically, but doing so could affect the unit's performance. (More on that in a moment.)

Roughly the size of a very thick legal pad at 1.5x10x14 inches (HWD), the Qbe can be carried under an arm. Its bulk could help you build up your biceps, although those who use it probably won't hold it for extended periods of time and therefore may not notice the heft.

Qbe gives you a choice of input options: a combination of a TouchPen and handwriting-recognition software; an onscreen keyboard; a headset and speech-recognition software; and the traditional keyboard and mouse. You can capture images for videoconferencing or stills with the built-in CCD camera at the top of the tablet.

While appealing in theory, these various input methods can be clunky in real-world use. The TouchPen option requires you to use a corded pen, rather than a cordless stylus. Right-click and scroll buttons on the face of the unit ease navigation when using the TouchPen, however.

Video-capture quality was decent, but getting the camera to pop out of its shell was difficult, and we got no help from the manual. The headset makes sense for this type of unit, but like all speech-recognition software, the included Lernout & Hauspie Mobile and Voice Express required a bit of training before reaching acceptable accuracy levels.

The keyboard and mouse attach to the unit through the ports on the device or the included Porticle docking station, which has a full array of ports (serial, parallel, PS/2, VGA, USB, FireWire, and game). The docking station doubles as a stand for the Qbe, enabling you to view the screen upright on a desk. The Qbe includes a SmartCard reader for security purposes, although our evaluation unit did not have the necessary software support. (Aqcess says it will be available by the time you read this.)

In overall performance testing, the Qbe scored 18.2 on Business Winstone 99 in horizontal-view mode. In vertical-view mode, however, it scored 16.2, roughly 11 percent lower. We were unable to pin down the reason for the difference in the scores, but we believe that graphics performance is the culprit. Regardless, these ratings match up to those of similarly configured notebooks.

The Qbe stumbled in battery performance, lasting only 1 hour and 36 minutes on our BatteryMark 3.0 test. That's considerably lower when compared with today's portables, which achieve an average of 3 hours. The one-year parts-and-labor-warranty is also brief.

Though the Qbe Personal Computing Tablet has its shortcomings, it could be a worthwhile product for walkabout workers who need the performance of a full-fledged notebook and flexibility in input options. The average mobile user, however, can easily get a lot more value in a conventional notebook.

—Raymond M. Padilla

★★
RATED 1 TO 5 STARS

Numerous input options; robust components and features; visual appeal

Expensive; short battery life; unprotected LCD; brief warranty

SYSTEM: Aqcess Qbe Personal Computing Tablet
COMPANY: Aqcess Technologies
Irvine, CA; 888-240-2823
www.qbenet.com
AS TESTED: 400MHz Celeron processor; 128MB SDRAM; 12GB hard drive; 13.3-inch XGA active-matrix LCD; 24x CD-ROM drive; Silicon Motion Lynx3DM graphics chip with 8MB VRAM; ESS Maestro 1980-M3 audio chip; Capacitive TouchPen Overlay pointing device; integrated digital camera; headset; keyboard; mouse; Windows 98
MFR. EST. PRICE: $3,995

COMPUTER SHOPPER Price It!™ 24948

For real-time pricing, go to *priceit.zdnet.com* and enter number.

SECTION CONTINUES ON PAGE 138

I HAVE
A FORWARD-THINKING STAFF

I NEED
COMPUTERS READY FOR THE FUTURE

MEET THE IBM NETVISTA LINE OF COMPUTERS. A WHOLE NEW WAY TO GET A WHOLE LOT DONE. It's new. It's black. And it's Internet-ready out of the box. It's the simply designed, flat panel all-in-one IBM NetVista™ X40 PC. This powerful e-machine is ADSL[1] capable, which gives you almost instant access to the Web. And it takes up to 75% less space than the beige box that's crowding your desk.

AN INCREDIBLY EXPANDABLE ALL-IN-ONE PC. The NetVista X40 is ready for anything, including a cable-free wireless network. With seven USB ports (including keyboard), you can plug in everything you need – from new speakers to the sophisticated videoconferencing tools of the future – in a snap.

GET THE TECHNOLOGY YOU NEED. DIRECT FROM IBM. Like the ThinkPad® notebooks you see here. These e-business machines come with powerful 56K V.90[2] modems so you can access the Internet with speed. And the IBM ThinkPad i Series 1542 features color-coded Easy Launch buttons that give you one-button access to special small business Web sites.[3] With IBM, your staff has everything they need to stay ahead, no matter where technology takes your business.

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DESKTOPS

IBM NetVista X40 11U

Intel® Pentium® III processor 566MHz[4]
64MB SDRAM • 24X-10X[5] CD-ROM
10GB[6] HDD
7 USB ports (including keyboard)
Intel 10/100 Ethernet
Microsoft® Windows® 98
15" TFT
3-year parts/1-year onsite limited warranty[7]

$2,049[8]
SuccessLease™ for Small Business $74/MONTH[9]

CUSTOMIZE YOURS:
Iomega Zip 250MB External USB Drive **$179.99[8] or $6/month[9]**
Kodak DC215 Millennium 2000 Digital Zoom Camera **$349.99[8] or $13/month[9]**
IBM PC Video Camera[10] (Stealth Gray) **$59.99[8] or $2/month[9]**

IBM NetVista X40 13U

Intel Pentium III processor 667MHz
64MB SDRAM • 24X-10X CD-ROM
20GB HDD (7200 rpm)
7 USB ports (including keyboard)
8MB integrated 4X AGP graphics
Intel 10/100 Ethernet
Windows 98
15" TFT
3-year parts/1-year onsite limited warranty

$2,299[8]
SuccessLease for Small Business $83/MONTH[9]

CUSTOMIZE YOURS:
Tripp Lite Internet Office 280VA Backup Power Supply **$79.99[8] or $3/month[9]**
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IBM PC Video Camera (Stealth Gray) **$59.99[8] or $2/month[9]**

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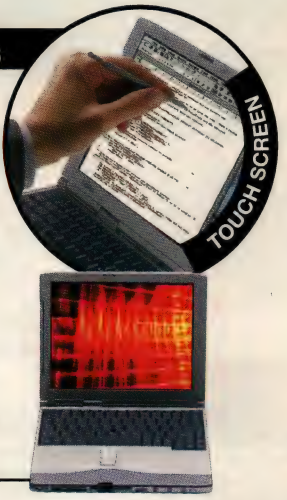

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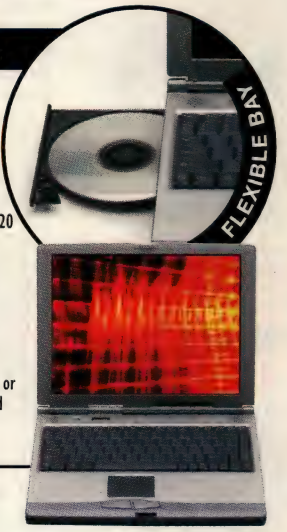

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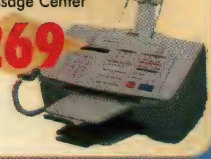

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GIVEN THE OFTEN FICKLE PERFORMANCE OF VERY portable products, we're always a little surprised when they go beyond our expectations. This was exactly our reaction when we evaluated Canon's $299 BJC-85 Bubble Jet printer.

The 2.3x11.8x6-inch (HWD), 3.1-pound unit is so portable that it easily slips into the side of a notebook carrying case, yet it pumps out beautiful color output that's equivalent to models three times its size. If you can live with the compromises necessary to shoehorn a good-quality inkjet into a small chassis, this little printer provides a great way to produce top-notch color output on the road.

Many of the BJC-85's specs approach those of its bulkier siblings. It prints 720x360-dpi resolution text, 360x360-dpi color photographs, and accepts virtually all Canon inkjet media. It can handle 8.5x14-inch paper stock, and its automatic sheet feeder holds 30 sheets of paper, five envelopes, or 10 transparencies.

In some ways, the BJC-85 actually exceeds the capabilities of standard-size units, offering parallel, USB, and wireless IrDA interfaces, as well as low noise levels. You can convert it into a scanner by replacing its printhead with a $99 optical sensor. An optional nickel metal-hydride rechargeable battery costs $85.

Unfortunately, the BJC-85's portability comes at a price. The printer is a bit on the flimsy side, and its output speed can try your patience. Canon rates its print speeds at 5 ppm for text and 2 ppm for color images, but we found the figures closer to 1.6 ppm and one-tenth of a page per minute, respectively.

Operating costs are also fairly high. We could squeeze only 32 full-page color printouts from a pair of its tiny ink cartridges, which equates to $1.56 per page. The cost to print plain text is even farther out of line at about 28 cents per page.

The BJC-85 produced crisp text and well-saturated, detailed color images on matte and glossy paper stock, but it smeared and streaked transparencies.

This portable printer is quiet and easily transportable, and it generates good-looking output on paper. If you don't print transparencies and can live with its slow performance and costly consumables, the BJC-85 may surprise you, too.

—Don Labriola

★★★
RATED 1 TO 5 STARS

Compact; good-quality output on paper; abundant options

Slow; high operating costs; not very rugged; smears transparencies

PRODUCT:
Canon BJC-85 Bubble Jet
COMPANY:
Canon Computer Systems
Costa Mesa, CA; 800-652-2666
www.ccsi.canon.com
MFR. EST PRICE: $299

COMPUTER SHOPPER Price It!™ 24945

For real-time pricing, go to *priceit.zdnet.com* and enter number.

CYBIKO WIRELESS INTER-TAINMENT SYSTEM

A High-Tech Toy For Teens

THESE DAYS, ALMOST EVERY ADULT IN AMERICA seems to be toting a PDA. Now industry newcomer Cybiko is targeting the knapsack set with its $149 Wireless Inter-tainment System, a flashy PDA for kids and teens that fuses games and wireless communications with practical apps like a PIM.

The Inter-tainment System is a portable 4.3-ounce device that's decked out in four cool translucent colors. Its price may seem a little steep to those still collecting an allowance, but buyers won't have to invest in apps after they purchase the device: Cybiko doles out free downloads of interactive games and other software each day from ***www.cybiko.com.***

More interesting than free software, however, is the Inter-tainment System's wireless communications capability, which allows kids to use chat-based instant messaging within a 300-foot area. Chats are a snap to initiate and navigate, and they can be public or private. Additionally, Cybiko lets you send free e-mail messages from its Web site. The handheld even sports a vibrating alert for new messages.

Like most PDAs, the Inter-tainment System links to a PC with a cable for downloading files and software from the Web site. The software, still in beta at press time, was confusing to install. But downloading other applications was easy.

We found the unit slow to boot up, but its performance was fine using applications. Its rechargeable batteries lasted for roughly 5 hours in our testing.

Reading and typing messages was a bit difficult on the small 2.25-inch monochrome display and Chiclet-style keys. You can store a list of favorite phrases in the device, which speeds communications somewhat. The unit also comes with a stylus that's designed to help with pressing keys, though you can't maneuver the display with it.

The Inter-tainment System has a built-in proprietary expansion slot, giving it the capacity to grow along with its users. Plans for an MP3 player are in the works. For now, you might want to concentrate on adding memory. The unit comes with only 1MB of RAM but is expandable to 16MB.

Though the Cybiko Inter-tainment System is an expensive toy, its gaming and wireless communications features should give today's adolescents a taste of the digital future.

—Raymond M. Padilla

★★★
RATED 1 TO 5 STARS

Free software; instant messaging; rechargeable batteries

Tiny keyboard and display; somewhat expensive

PRODUCT:
Cybiko Wireless Inter-tainment System
COMPANY: Cybiko
Chicago, IL; 877-429-2456
www.cybiko.com
MFR. EST. PRICE: $149

COMPUTER SHOPPER Price It!™ 24946

For real-time pricing, go to *priceit.zdnet.com* and enter number.

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hp brio business pc | buy.hp.com | 1-800-656-6018

Model D9666T: Intel® Celeron™ processor 466 MHz/Intel 3D Direct AGP graphics/32 MB SDRAM (upgradeable to 512 MB)/4.3 GB HD/40x max CD-ROM/3.5" floppy drive/HP Brio Internet Center pre-loaded/Windows® 98

*Price is estimated street price. Actual price may vary. Intel and the Intel Inside Logo are registered trademarks and Celeron is a trademark of Intel Corporation. ©2000 Hewlett-Packard Company. All rights reserved.

SOFTWARE

ULEAD COOL 3D 3.0

Animating The Web

Computer Shopper Best Buy June 2000

RARELY HAS A PRODUCT BEEN SO APTLY named as Ulead Systems' Cool 3D. An ultrafriendly, full-featured titling and animation program, Cool 3D is perfect for Web designers who want to add stunning animated graphics without much hassle. This latest version adds a new mix of powerful features, such as a path editor for creating vector objects, geometric primitives that can be dropped into a drawing, and six terrific plug-ins that add effects such as fire and glow.

Cool 3D's straightforward interface consists of several task-oriented toolbars that can be mastered in minutes. Text, vector paths, and geometric objects can all be added and edited with the Object toolbar. The Gallery, which contains a library of sample objects, textures, bevels, lighting styles, and color settings, can also be used to manipulate objects. Thumbnails are dynamic, so you can preview all transitions and animations before making a selection, and all attributes—color, transition, lighting, scale, and so on—are easily customized.

You construct more sophisticated animations via the Animation toolbar, which lets you add keyframes (specific points along a timeline where an object transforms) and assign effects. You can set the number of frames in an animation to any value. Unfortunately, the timeline doesn't lengthen, which makes it difficult to add more than 12 keyframes to complex sequences.

The best part of Cool 3D, however, is the effects. You can wrap animated surfaces around objects and make them explode, bend, twist, or rotate. You can also move animations along a user-specified path by defining height, ceiling, and other parameters—although you can't simply draw a path and attach an object to it.

You can export your creations in a number of formats, such as RealText 3D, AVI, MOV animations, or sequential BMP, JPG, and TGA files. The program also includes a GIF animation optimizer, which lets you view the final file size and download time at different compression settings.

We've seen many inexpensive animation utilities, but Cool 3D is definitely the coolest of the bunch. It's fast, simple, and produces excellent output. If you need to bounce a logo or spin a globe, this program lets you do it with class.

—Susan Glinert

★★★★★
RATED 1 TO 5 STARS

Simple interface; dazzling special animation effects; excellent import and export capabilities

No right-mouse-button support

PRODUCT: Ulead Cool 3D 3.0
COMPANY: Ulead Systems
Torrance, CA
800-858-5323, 310-523-9393
www.ulead.com
REQUIRES: 32MB RAM; 69MB hard drive space; Windows 95, 98, 2000, or NT
MFR. EST. PRICE: $79.95

Computer Shopper Price It!™ 24919

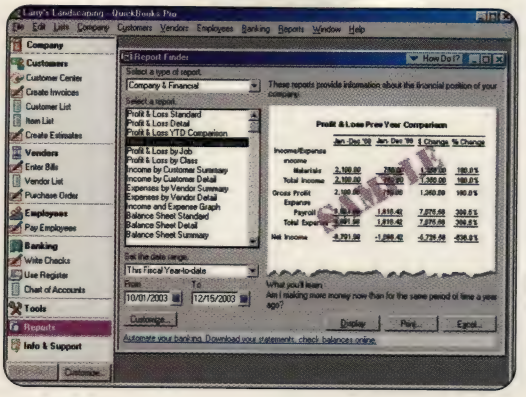
For real-time pricing, go to *priceit.zdnet.com* and enter number.

QUICKBOOKS PRO 2000

Balance Your Books With Ease

INTUIT'S QUICKBOOKS PRO 2000 MAY NOT BE THE MOST robust accounting package available, but it's definitely the easiest to use. Its task-oriented layout and minimal jargon simplify the principles of accounting and make the world of double-entry bookkeeping inviting to the average Quicken user.

The big news in QuickBooks Pro 2000 is a new suite of optional online services designed to let small-business owners take full advantage of the Internet. With the new QuickBooks Site Builder service, you can build a Web site, register a domain name, and post it to the Internet (free of charge for six months), all from within the program's interface. The QuickBooks Postage Service lets you sign up with E-Stamp to buy and print postage. And you can use the Merchant Account Service feature to sign up for an online account that lets you authorize and settle credit-card payments on the Internet when invoices are entered into QuickBooks. Bank statements can be downloaded into the program using the Online Banking feature, which also lets you settle your accounts payable with electronic funds transfers. Although these services are highly convenient, most come with additional fees.



The online suite isn't the only improvement to QuickBooks Pro. The program also boasts an improved user interface, which makes it easier to access important business information. This data is grouped in separate "centers," such as the Company Center and Customer Center. The Company Center displays a summary of account balances and a graph of income and expense trends. If the receivables total looks high, you can use the zoom feature to view a detailed list of who owes you money and how much.

Although QuickBooks Pro is already one of the most popular desktop accounting packages, Intuit is not resting on its laurels. By adding online features and synchronization with popular contact managers, QuickBooks Pro 2000 is more powerful than ever. And the program's revamped navigation tools make it easier to manage your business finances.

—Sheldon Leemon

★★★★
RATED 1 TO 5 STARS

Wide range of online services; excellent documentation; superior navigation features

Less powerful than some competing products; separate charges for optional online services

PRODUCT: QuickBooks Pro 2000
COMPANY: Intuit
Mountain View, CA
800-446-8848
www.quickbooks.com
REQUIRES: 166MHz Pentium-class processor; 32MB RAM (64MB recommended); 85MB hard drive space; Windows 95, 98, 2000, or NT 4.0
PRICE: $219; $449 (five-user pack)

Computer Shopper Price It!™ 24908

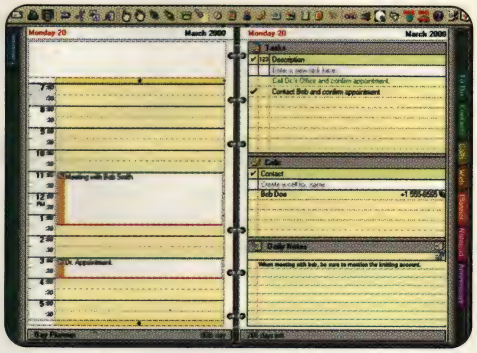
For real-time pricing, go to *priceit.zdnet.com* and enter number.

SOFTWARE

LOTUS ORGANIZER 6

Get Organized With the Web

Lotus Organizer has a well-earned reputation as a powerful yet highly intuitive personal information manager (PIM). With the release of Organizer 6, Lotus has taken the PIM to new levels of sophistication, integrating a suite of impressive Internet features, as well as making some long-overdue improvements to the program's overall functionality.



Organizer 6's most exciting new feature is its powerful integration with the Internet. The new Web Tab, for example, lets you store and organize your favorite sites. Clicking on a URL here launches your browser and brings up the associated Web site, but that's not all—Organizer is smart enough to plug in your user name and password for sites that require them. Lotus has also made capturing Web content easier by allowing you to store whole Web pages, or selected portions, in the Notepad section with a single mouse click. MapQuest maps and directions are now directly accessible from the contact section. Lotus has even thrown in support for both the iCalendar 1.0 and vCard 3.0 standards, making publishing and sharing information on the Web a snap.

The improvements to Organizer 6 aren't confined to the Internet. Lotus has finally included a list view for the Contacts section and has enhanced the Find feature to display more information about the matches it makes. The parsing function of the EasyClip feature has been improved as well, allowing Organizer to more reliably grab appointment information from a text message. The program also comes with a new area-code update tool, although it requires you to know the correct replacement area code.

Organizer's EasySync feature now supports all Palm devices, and Lotus has integrated Paragon's FoneSync, which lets owners of digital mobile phones upload names and phone numbers. Desktop users also receive a bonus: Organizer 6 ships with Lotus Smart Center, a convenient utility that provides quick access to your Calendar, Contacts, Reminders, and more. What's more, Lotus finally permits you to update Organizer via the Web.

Organizer 6 may not boast the brute force of some of its competition, but the simplicity of its interface and the program's practical integration with the Internet are a winning combination. For consumers and professionals alike, Lotus Organizer 6 makes for a practically perfect PIM.

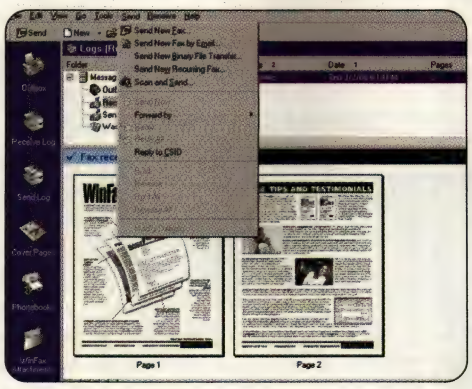
*(Lotus Development Corp.; $79; **www.lotus.com**)*

—Xavier W. Niz

WINFAX PRO 10.0

More Than Just the Fax

It's no accident that Symantec's WinFax Pro is the most popular fax software around. With its easy-to-use interface and generous assortment of features—including a wide range of preinstalled cover pages, simple sorting for all faxes sent and received, and the ability to send a laser-quality WinFax from any Windows application by hitting Print—the program has long attracted both corporate and individual users.



With the latest version of WinFax, Symantec has set its sights squarely on the professional market, which will appreciate new features like junk-fax management. When you get an unsolicited or unwanted fax, simply add the incoming number to the list of blocked senders, and subsequent faxes from that number will be instantly deleted. You can also store incoming and outgoing faxes in the folder of your choice for better management of project files, contracts, and solicited communications. Another new feature lets you create faxes simply by dragging documents onto the WinFax Drag & Drop Depot icon on the Windows desktop. The program can even track faxing costs and customer lists, and generate flexible reports on a user's faxing history. The enhanced user interface also lets you set various dialing rules to accommodate overlaid, multiple, and split area codes. For added convenience, WinFax lets you send and forward faxes in a self-viewing format to recipients' e-mail addresses.

And the list goes on. Although new users may find the vast number of options a bit daunting at first, the built-in help and online support can make anyone a WinFax pro in no time.

*(Symantec; $119.95; **www.symantec.com**)*

—Avital Fryman

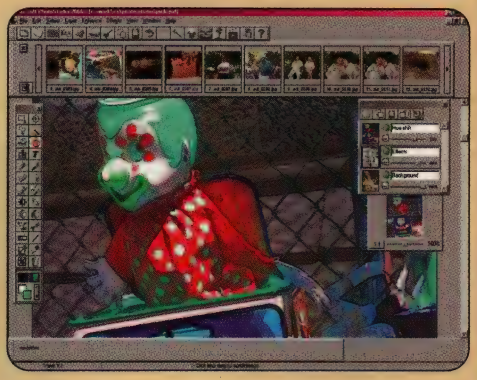
PHOTOSTUDIO 2000

Image Editing for a Song

Though it's not as slick or full-featured as some of the bigger guns in the image-editing battalion, ArcSoft's PhotoStudio 2000 does have a clear advantage when it comes to price. At $39.99, this serviceable little application beats most of the competition by about $60, while offering novice users most of the basic tools necessary for working with digital images.

The latest version of PhotoStudio features a surprisingly well-implemented macro capability. The program automatically maintains the list of operations you perform during a session. Save the list, and there's your macro. You can then apply the macro to an entire album of images.

PhotoStudio 2000 also comes with several competitive must-haves, such as layers, context-sensitive help, and a connection to an online photo-sharing site (ArcSoft's own PhotoIsland, at **www.photoisland.com**). The layers work well enough, although they can be a bit confusing at first. For instance, you can only see opacity changes in real time if the Layers palette is undocked. If docked, the slider disappears into Layer Properties, and you can't get real-time updates.



Even with its context-sensitivity, the help function and accompanying documentation are severely lacking. For starters, the word "macro" doesn't appear anywhere in the help index, and the printed documentation doesn't even have an index. Also, the Studio Assistant, which is designed to help you perform basic tasks, is close to useless. Although it does give you step-by-step text instructions, when you click "Do it for me," the program merely selects the appropriate tool, leaving you to find the correct settings and apply them.

If you're looking for an inexpensive product that will accomplish basic retouching tasks, PhotoStudio 2000 won't disappoint. But if you're in the market for more power or a slicker interface, keep looking.

*(ArcSoft; $39.99; **www.arcsoft.com**)*

—Lori Grunin

COMPUTER SHOPPER Price It!™

	code
Lotus Organizer 6	24906
PhotoStudio 2000	24905
WinFax Pro 10.0	24904

For real-time pricing, go to *priceit.zdnet.com* and enter number.

BITLOCKER

WEB SERVICES

Base Your Database Online

THE INTERNET MAY BE ALL ABOUT SHARING, BUT for the most part it's a text- and graphics-oriented place. This can make distributing other forms of information, especially database-driven data, awkward at best. Bitlocker ***(www.bitlocker.com)***, a free online database development and storage service, helps fill this gap. By enabling Bitlocker databases to be "embedded" into other Web pages, the service saves you from having to publish database information yourself. Now, using Bitlocker, you can just add a link to the information or form wherever you need it.

After filling out a short form and agreeing to the company's legal statement, you can start using your Bitlocker account immediately. (You'll need a cookie-enabled browser.) You can create a database using a blank template or one of several predefined models. Some of the predefined forms are frivolous, although useful contact-manager, product-registration, and user-feedback forms are available.

Using Bitlocker is similar to using most database programs. Each field can be defined with a name, optional description, and type (such as text, URL, or numeric). Value lists can be entered as fields and can be assigned a default entry. Bitlocker also lets you upload pre-existing databases—a considerable time-saver—but data structures have to be identical, or the data will be placed in the wrong fields.

Bitlocker databases can be shared with a workgroup, although each member must have an account with the company. You can also limit access to your database, giving some users but not others permission to add, change, or delete records.

Although you can view the databases as either cards (records) or tables, you can't customize the forms themselves. As in any database, records can be sorted by field. But complex data relationships, computational capacity, and exotic searches are not available—this is strictly a flat-file, dead-simple structure. However, you can download databases and locally tweak the data.

Nonpaying members receive 25MB of storage and 24/7 access to the service. For $100 a year, you can have up to 100MB of space, eliminate banner ads, and get your customer-support questions answered within eight hours. If hard drive space is tight or you want to share information with colleagues or friends, Bitlocker is an innovative solution.

—Susan Glinert

★★★

RATED 1 TO 5 STARS

Free; easy to use; painless group access to databases

Suitable only for simple databases; forms not customizable

SERVICE: Bitlocker
COMPANY: Bitlocker
Palo Alto, CA
www.bitlocker.com
REQUIRES: Internet access
PRICE: Free; $100/year for expanded service

COMPUTER SHOPPER Price It!™ 24902

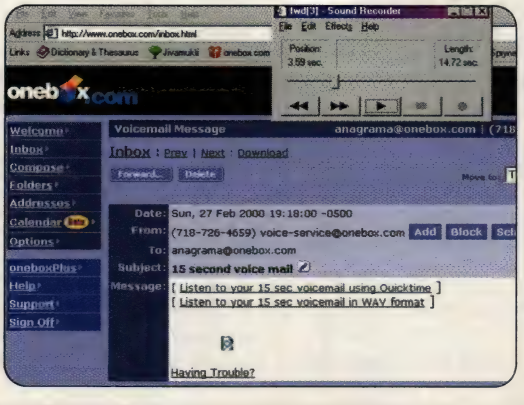
For real-time pricing, go to *priceit.zdnet.com* and enter number.

ONEBOX

One World, One Click, Onebox

THE PROLIFERATION OF CELL PHONES, E-MAIL, faxes, pagers, and voice mail in our daily lives can make the simple act of staying in touch surprisingly complicated. But Onebox, a free integrated messaging service, aims to simplify the lines of communication by allowing you to retrieve your faxes, voice mail, and e-mail through a single Internet account.

Onebox, which at press time was expected to be acquired by Phone.com, is easy to use. After submitting your name and picking a screen name and personal identification number, you'll get an e-mail address (screen name@onebox.com) and a phone number with a four-digit extension that friends, relatives, and business associates can use to leave voice messages or send faxes. When you receive a message, notification is sent to the in-box of your Onebox e-mail account, although you can have notifications forwarded to another e-mail address, alphanumeric pager, or cell phone.



After logging on to the Onebox server, retrieving your messages is easy. To read a fax, simply click on the View button next to the subject heading. This launches a viewer (a one-time download) that lets you print, forward, store, or otherwise manipulate your faxes. Voice messages also appear in your in-box, as either QuickTime or WAV files. If you've got a Web-enabled cell phone, you can take advantage of an additional service that lets you not only access your account from your phone, but also respond to messages. In our tests, messages and faxes were received within 30 seconds. Receiving e-mails, however, can be affected by online traffic.

If it all sounds too good to be true, that's because, to a certain degree, it is. The basic service comes with only 3MB of storage capacity. But for $4.95 a month, you can upgrade to 25MB and a direct phone line, making it even easier for others to stay in touch with you.

—Avital Fryman

★★★★

RATED 1 TO 5 STARS

Free basic service; send and receive voice mail and faxes via e-mail; easy access to messages

Sound quality of file formats varies; basic service provides low storage capacity; four-digit extension can make faxing difficult

SERVICE: Onebox
COMPANY: Onebox.com
San Mateo, CA; 650-356-1200
www.onebox.com
PRICE: Free for basic service; $4.95/month for expanded service

COMPUTER SHOPPER Price It!™ 24903

For real-time pricing, go to *priceit.zdnet.com* and enter number.

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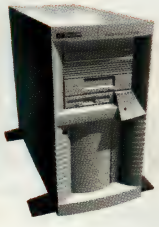

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GAMES

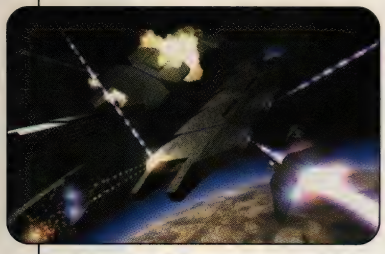
X: BEYOND THE FRONTIER

This Space For Rent

Fans of "Star Trek: Voyager" will feel right at home in X: Beyond the Frontier, a game in which you're accidentally hurled to an unknown part of the galaxy after something goes wrong with your spacecraft's test flight. To survive, you must learn the local customs of barter and piracy.

Reminiscent of space-combat and trading games such as Elite and Privateer, X comes close to joining the ranks of those classics. It has the lush graphics, the compelling music, and engaging money-based gameplay. You can become a ship-raiding pirate, a pirate-chasing police ship, a smuggler, or just an honest trader. Combat is inevitable, but players wishing to focus on the game's trading aspects can steer clear of most conflicts.

Indeed, gamers looking for an action-packed space sim like FreeSpace 2 will probably find X's pace too slow. You'll



spend a lot of time flying between space stations and factories, which can become tedious if you've got an itchy trigger finger. But there's plenty of satisfaction in making money and upgrading your ship. And if you buy a time-compression device, things move along much quicker.

X's instruction manual lacks vital gameplay information, forcing time-consuming experimentation simply to learn how things work. Also, it can take a good 20 minutes to complete the opening sequence, so heaven help those who have to start over more than once or twice. These complaints aside, we found X to be a slick space sim that Privateer fans are sure to enjoy.
(Southpeak Interactive; $29.95; ***www.southpeak.com****)*

—Rick Broida

1602 A.D.

Westward Ho-Hum

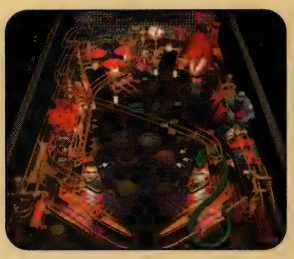
Take a cup of Imperialism, a pinch of Sim City, and a dash of Age of Empires, and you get 1602 A.D., a real-time strategy game that takes you back to the golden age of New World expansion.

Your goal is to set sail, claim an uncharted island, and establish a colony. By exploiting the local resources, you develop an economy and attract more settlers. Of course, you must also fend off hostile neighbors and pirates.

Although it starts off great, 1602 A.D. suffers several design flaws—particularly its erratic supply management—that only get worse as the game progresses. Developed by German publisher Sunflowers, 1602 A.D. has been packaged by GT Interactive with an expansion pack that includes 300 new islands and more than 50 single-player and multiplayer scenarios. What this game needs most, however, is an upgrade.
(GT Interactive; $29.99; ***www.gtgames.com****)* ***—Patrick C. Miller***

PRO PINBALL: FANTASTIC JOURNEY

A Full-Tilt Adventure



The fourth installment in Empire Interactive's Pro Pinball series, Pro Pinball: Fantastic Journey raises the bar for both complexity and realism in a pinball simulation. Set against a convoluted, Jules Verne-themed background story about raiding the subterranean headquarters of the evil General Yugov before he can carry out his threat to destroy the moon, Fantastic Journey challenges your skills with numerous game modes, intricate combo shots, and even video adventures featuring four steam-powered machines that rise up from the game table.

The game's revamped physics engine provides amazingly accurate ball movement, although it did display the occasional stutter. What impressed us most, however, were the photo-realistic graphics and thorough Options menu, which gives you control over all the game settings.

Our sole complaint is that while the game supports up to four players per match, implementing this feature can be tricky. (You need to add players after starting a game.) Still, we didn't mind making this journey on our own.
(Empire Interactive; $24.95; ***www.empire-us.com****)* ***—A. Paul Healy***

TALONSOFT'S RISING SUN

Take a Turn At Victory

Traditional hex-map wargames are under assault by real-time strategy titles like the Close Combat series, but TalonSoft's Rising Sun shows that those turn-based sims still have some fight left in them.

Rising Sun simulates World War II infantry battles in the South Pacific and Far East. The 40 platoon-level scenarios range from early confrontations in Burma and Singapore to beach-storming invasions of fortified atolls such as Tarawa. Even included is Operation Olympic, a hypothetical Allied invasion of Japan. You can play the scenarios individually or as part of a campaign.

The game's best feature is its outstanding 3D depiction of jungle and coral-island scenery. A compact button bar houses the essential controls, leaving most of the display free for sumptuous views of the terrain.

Clicking on any of the game's many types of units—from amphibious tanks to artillery carriers—brings up a succinct description in a summary window. Also useful are the individual "thermometers" that you can toggle to display remaining action allowances for all onscreen units. These conveniences are invaluable in advanced scenarios that hurl literally hundreds of units into the fray.

Like most turn-based wargames, Rising Sun is no quick study. Although the game advises you to start with the New Guinea "boot camp" scenarios, you'll need to follow along in a WordPad file or the manual while you play. The tutorials are well-written, but the game cries out for a more integrated learning system.

After boot camp, you'll still need to digest rules governing issues like command, supply, and morale. But old-school gaming veterans will find the effort worthwhile. Rising Sun rallies the genre.
(TalonSoft; $49.95; ***www.talonsoft.com****)* ***—John A. Burek***

THE SIMS

Their World, Your Rules

Computer Shopper Best Buy June 2000

Talk about playing God. With The Sims, by the creators of SimCity, you get to manipulate people's lives—well, virtual people's lives.

You start by choosing characters, picking their hairstyles and even adjusting their personalities and astrological signs. Then it's time to put them into homes, which you can decorate in neo-tacky or dot-com ostentation. Whether you create a party-crazed bachelor or a well-adjusted family of five, you'll need to fulfill their every desire—from hunger to hygiene. Ignore a character, and he will start complaining in Sims gibberish with icon-based thought bubbles that he's lost his job because you forgot to have him take a shower or get him to the car pool on time.

You'll soon discover that it's not enough to get your wards a job and keep them fed—you must also attend to their social and emotional needs. If, for example, you don't let your Sims make friends and keep up relationships, their careers will suffer, or they'll mope around in their bedrooms. Some players also may be disappointed to learn that while you can initiate infidelities and do some matchmaking, The Sims is strictly a G-rated affair.

For those who want to show off their virtual families, a photo-album feature lets you take snaps of your Sims and post them online at ***www.thesims.com.*** So even if you can't choose your own family, at least you can create one you can be proud of.
(Maxis/Electronic Arts; $49.95; www.ea.com)

—John R. Quain

Computer Shopper Price It!™	code
Pro Pinball: Fantastic Journey	24910
1602 A.D.	24907
The Sims	24900
Talonsoft's Rising Sun	24909
X: Beyond The Frontier	24901

For real-time pricing, go to priceit.zdnet.com and enter number.

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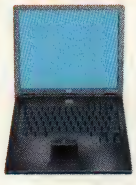

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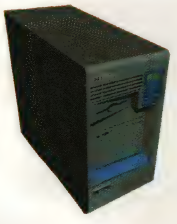

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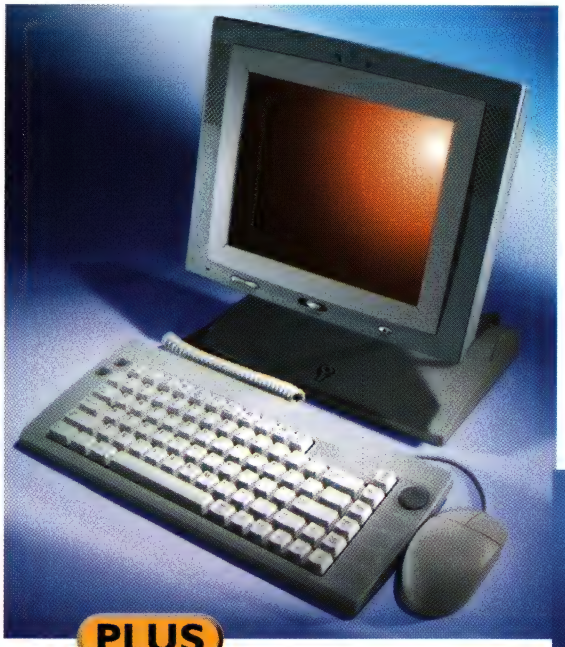

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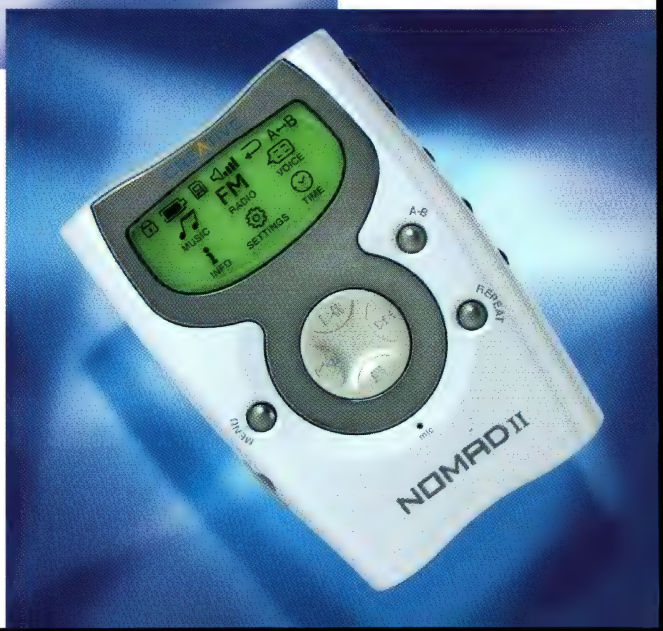

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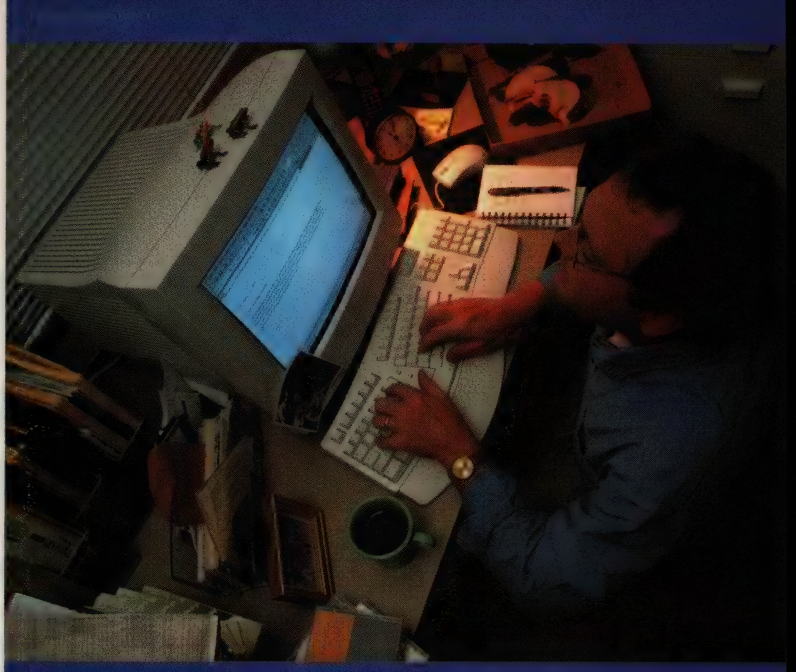

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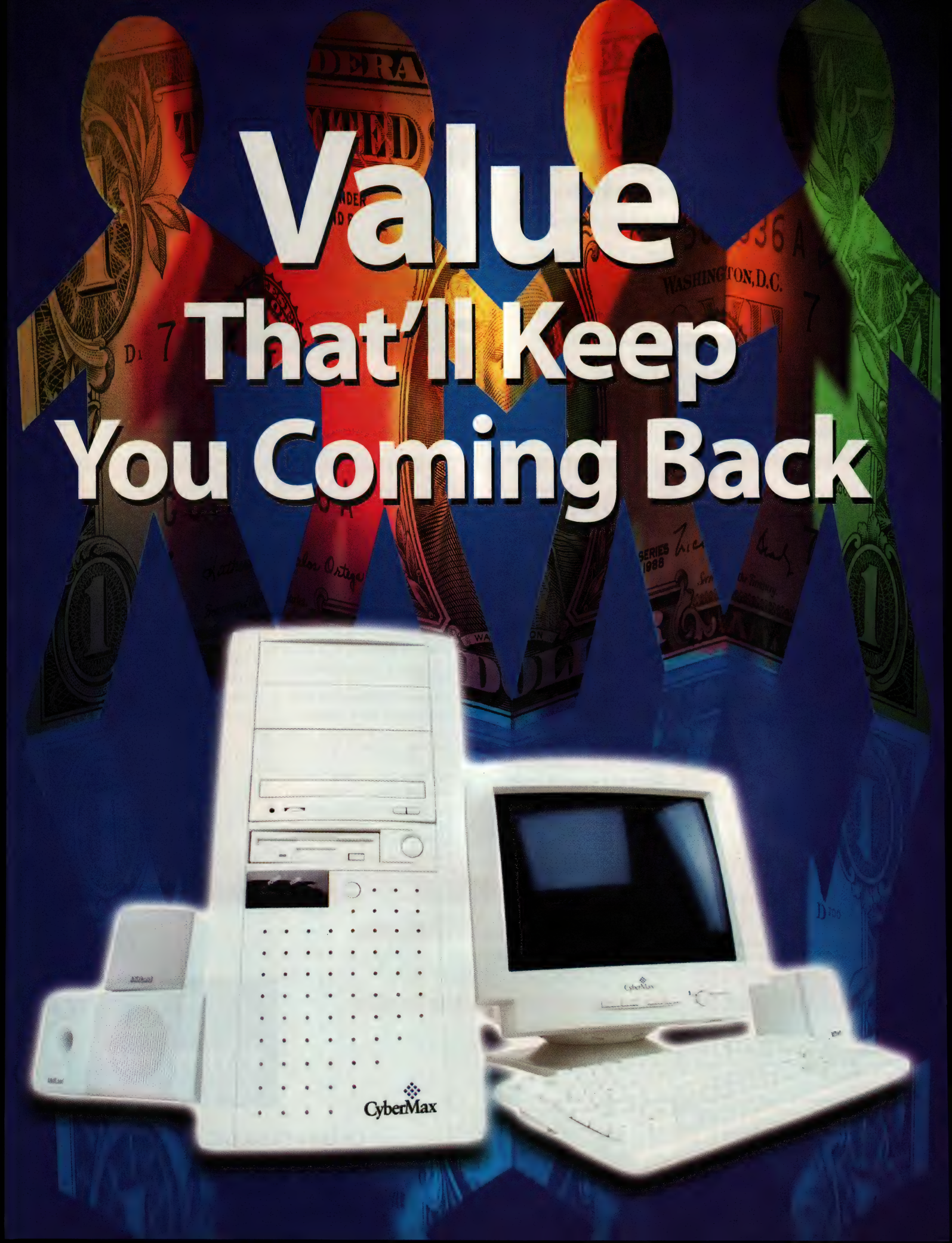

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- CyberMax 17" (.28dp-15.7"VA) Monitor
- 48x Max Variable Speed CD-ROM
- 3D Wavetable Sound
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The Quest for the Best

From a 1GHz Athlon to a 3.3-megapixel digicam, we test 10 of today's hottest products.

Technology is a moving target, and defining the current state of the art is like trying to shoot a metal duck in a sideshow gallery: It bobs by before you can pull the trigger, only to be replaced by a fresh line of unstoppable successors. Similarly, many of the hot products we reviewed just a few months ago have already been supplanted by more advanced follow-ups. This month, we've tested 10 products and services that are so cutting-edge we're betting that competitors will be aiming to shoot them down for a while.

TOP TECH

- Gateway Select 1000
- Netpliance i-opener
- Compaq iPaq Legacy-Free
- Sony VAIO PCG-XG19
- Motorola Timeport P7389
- Palm IIIc
- Canon PowerShot S20
- Creative Nomad II
- Application Service Providers
- Linux

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CUTTING-EDGE PRODUCTS

These reviews yield a snapshot of today's best technology, as well as a preview of what to expect next.

The products span a range of categories—from a muscular 1GHz desktop to sleek information appliances to a 3.3-megapixel digicam—but have several characteristics in common. All are faster, more stylish, and easier to use than ever before. And chances are, they'll do more of what you want them to, and they'll cost less, too.

Perhaps the mightiest milestone among the group is the leap to gigahertz computing. Just a few months ago, Intel Corp. and AMD vowed to deliver a one-gig engine by year's end. But competitive jockeying resulted in a springtime arrival of AMD's 1GHz Athlon, followed just a few days later by the debut of Intel's 1GHz Pentium III. And the race shows no signs of letting up. Both companies have demonstrated desktop processors running well above the one-gig threshold.

While powerful processors are today's front-page news, thin clients are quietly slipping in through the back doors of both homes and offices. These systems, often called Internet appliances, tend to be inexpensive and great-looking. Consumer versions are engineered for simple tasks like Web surfing; their corporate cousins, however, are far more capable. Both aim to make computing as straightforward as possible, often by eschewing "legacy" components like serial and parallel ports, expansion-bus slots, and floppy drives.

We're also starting to see the beginnings of this move toward legacy-free systems in notebooks. For now, however, the real news about notebooks is faster processors that optimize battery life and performance. Intel leads this initiative with its SpeedStep technology, which conserves battery power by throttling down clock speed when the notebook is unplugged. AMD is set to release a similar technology called PowerNow.

The noisiest buzz in portable technology comes from cell phones that deliver wireless Internet access. Sleek, tiny phones with built-in microbrowsers are the gotta-have gadget of the moment, and deals for wireless portals and "mobile commerce" sites are being inked at breakneck speeds.

Some believe these Net-enabled phones will eventually overtake PDAs. We're not so sure, especially now that Palm has launched its first unit with a color display. Given Palm's commanding 75 percent share of the PDA market—and the fact that the new Palm is the most svelte color model available—the end of monochrome displays could be near, but reports of the handheld's demise may be greatly exaggerated.

These newcomers are faster, more stylish, and easier to use than their predecessors. They'll let you work—and play—better than ever.

While many portable devices shrink in size, the resolution of digital cameras is soaring. A handful of new consumer digicams boast resolutions that break the 3-megapixel barrier. Expect to see cameras with 4-megapixel resolutions before year's end.

And as the photos become sharper, so too does the audio quality of MP3 players. The best among them can store up to 2 hours of near-CD-quality audio, offer built-in FM tuners, and let you be your own DJ with intuitive playlist-management software. Just around the corner are MP3 players with even more memory, new shapes and color combos, and the ability to seamlessly read a variety of secure digital-audio formats.

As for software, you know Linux is getting big when Big Blue gets behind it. IBM is working to make all its hardware and software compatible with the maverick OS. And Intel helped with a 64-bit version of Linux compatible with its forthcoming Itanium chip. Other new converts to penguin power include Motorola, which will ship its own version of the OS. Even Microsoft is rumored to be working on a Linux version of its best-selling Office suite.

While some see Linux as the future of the Internet, others see the Net as the future of software. Case in point: application service providers (ASPs), which enable you to rent and run software from the Internet rather than from a PC's hard drive. You're probably familiar with some form of ASP, such as Web-based e-mail and organizer apps. Now businesses are starting to see great advantages in not having to buy, install, and upgrade enterprise applications.

Taken together, the 10 products and services we've selected to review represent a state-of-the-moment look at technology. Or given the breathtaking pace of change, perhaps "state-of-the-nanosecond" might be more accurate. —*Rik Fairlie*

Gateway Select 1000

FAST TRACK

It was inevitable that the 1GHz processor would debut this year, but we were astounded by the fast-forward timing. Analysts and chip makers had stated that

CUTTING-EDGE PRODUCTS

one-gig chips would appear by year's end. But thanks to the one-upmanship between Intel Corp. and AMD, we received our first 1GHz system in March.

And what a PC it is. Gateway's **Select 1000,** running on AMD's 1GHz Athlon engine, pumped out the highest performance scores we've ever seen. With the help of its other high-end components, the Select turned in a Business Winstone 99 score of 32.8, roughly 10 percent higher than a similarly equipped 800MHz Athlon machine.

Not surprisingly, you'll need to open your wallet wide for this level of performance. The system we tested costs $3,308. But at that price you'll get all you need for a top-of-the-line computing experience.

The Select is rigged with 128MB of RAM, a mammoth 30GB hard drive, and Gateway's razor-sharp VX900 19-inch monitor. It also packs an 8x/32x DVD-ROM drive and a 4x/4x/24x CD-RW drive. As expected, DVD movie playback was flawless, courtesy of the included player software. Adaptec's Easy CD Creator comes preloaded to let you burn your own CDs, and Gateway supplies three blank discs to get you going.

Game players will go for the system's nVidia GeForce 256-based graphics card. Sporting a 256-bit pipeline and a whopping 32MB of SDRAM, the card helped the Select achieve stellar 3D WinMark 2000 scores of 90.6 at SVGA and 75.8 at XGA. Plus, it supplies TV-out and DVI-D connectors.

Gateway treats the ears just as well as the eyes, bundling a Creative Labs Sound Blaster Live Value audio card and a Boston Acoustics surround-sound speaker system. The speakers—a subwoofer and four flat-panel satellites—combine to produce crisp, wall-thumping sound.

Another nice touch is Gateway's multifunction keyboard, featuring CD, DVD, and volume controls (including a handy mute button), plus a quartet of buttons for launching a Web browser, an e-mail program, or anything else you care to program.

Gateway tops off the Select with Microsoft Office 2000 Small Business and Norton AntiVirus. The only things missing are a few games to showcase the GeForce card's prowess and an Ethernet card for networking and broadband access.

The Gateway Select 1000 is among the fastest PCs available today. At $3,308, it's also among the priciest. But if your creed is speed, you'll find it hard to resist the year's first full-on milestone.

A REAL I-OPENER

If, on the other hand, simple Web browsing is your objective, a one-gig scorcher is overkill. What you need is a sleek Internet appliance, a new breed of computing device that lets you hop onto the Web quickly and easily. Among the first was the **Netpliance i-opener,** which, at a price of $199 (plus $21.95 per month for Internet access) adds affordability to the mix. Better yet, Netpliance is offering the i-opener for $99 until June 18.

Netpliance i-opener

The i-opener targets families and novice computer users, offering a very basic hardware bundle: a keyboard, mouse, and 10-inch color flat-panel display. Setup is snap-simple: Just plug in the components and power cord, and connect the system to a phone jack. Because it comes preconfigured with a local access number, we went from box to Internet in a matter of minutes.

Instead of Windows, this device runs a proprietary graphical operating system, which enables it to deliver the convenience of instant-on operation. Its icon-driven, point-and-click screens are easy to navigate, although the i-opener is a bit pokey in switching from one screen to another.

At your disposal are various Web channels, with a handful of links in categories like news, finance, and shopping. You can visit any site just by typing the URL, and create your own list of favorites. You can also print Web pages and e-mail messages, but the i-opener supports only the Canon BJC-2000 printer.

The i-opener has a few other weaknesses. It limits you to one e-mail account on Netpliance's servers, and if you already have an Internet account, you can't connect to your own ISP.

For those who have yet to pick up a mouse, this affable appliance delivers e-mail and the Web in a compact, convenient, and friendly package. And at a cost of only $199, it's affordable enough for more than one room in the house.

COOL, YET CORPORATE

Simple and sleek computing shouldn't be limited to the home, but corporate systems typically require more functionality and power. The **Compaq iPaq Legacy-Free** answers the challenge with a scaled-down system that offers more functionality and power than an appliance.

For some time now, PC makers have been streamlining their business PCs to boost manageability and ease of use. Lately, they've begun to replace "legacy" ports and slots—parallel, serial, and PS/2 ports, and the elderly ISA slot—with USB ports. And most PC manufacturers also have put some serious thought into design, turning out corporate desktops that are surprisingly sleek and sexy.

Compaq's iPaq is the first to take this tack to the finish line. The iPaq features

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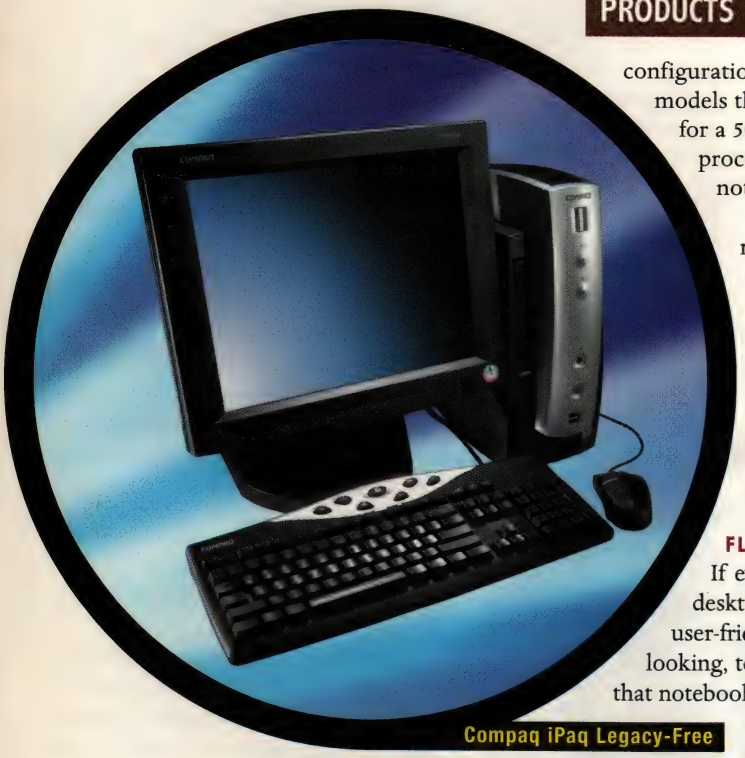

Compaq iPaq Legacy-Free

five USB ports for peripherals, two conveniently situated on the front of the tower. For expansion within the box, the iPaq features a hot-swappable drive bay that can accommodate optional CD-ROM, DVD-ROM, LS-120, or hard drive modules. (These modules are the same hot-swappable drives used in Compaq's Armada line of notebooks.)

Our $2,143 iPaq came amply equipped with a 500MHz Pentium III processor, 128MB of SDRAM, an 8.4GB hard drive, an optional $175 4x DVD-ROM drive, an Intel Pro/100+ Ethernet adapter, and Windows 2000 Professional. In testing, the unit's performance was comparable to that of similarly configured systems, delivering plenty of power for the average business user.

Compaq provides no software other than Windows 2000, but the iPaq does have one appreciable extra: an Easy Access keyboard with seven programmable hot-launch buttons, all of them preconfigured for various Web activities.

Though you can use any monitor with the system, Compaq's matching 15-inch flat-panel display is the stylish choice. This TFT is as crisp and bright as any we've seen, but it's also significantly more expensive than a comparable 15-inch CRT display. If your budget isn't big enough to accommodate the flat-panel configuration, Compaq offers models that start at $499 for a 500MHz Celeron processor, monitor not included.

Compaq's iPaq makes a strong statement: It looks smart, eliminates legacy technologies, and delivers unparalleled ease of use. In other words, it's finally cool to be corporate.

FLEXIBLE FLYER

If everything on your desktop is getting more user-friendly—and better-looking, too—it makes sense that notebooks would follow suit. And who better than the arbiter of consumer style, Sony Electronics, to take the lead?

Sony's sleek new notebook, the **VAIO PCG-XG19,** packs enough power to let mobile professionals crunch spreadsheets while editing video clips from the latest family vacation, yet it weighs a concourse-friendly 6.7 pounds.

Sony VAIO PCG-XG19

Sony rigs the notebook with just about everything you could possibly want—and at $3,999, throws budgetary caution to the wind. The XG19 is packed with top-flight components like a SpeedStep-enabled 650MHz Pentium III processor, 128MB of SDRAM, an 18.1GB hard drive, and a 14.1-inch XGA display. Sony rounds out the configuration with a hot-swappable 4x DVD-ROM drive and 4x/4x/20x CD-RW drive. The 1.44MB floppy drive can be used internally in the modular bay or externally with the included parallel-port cable.

Despite this laundry list of goodies, the PCG-XG19 remains remarkably portable, clad in a stylish metallic gray and purple casing that measures 1.75x12.1x10.3 inches (HWD).

Its comprehensive bundle of video-editing software is headlined by titles such as Adobe PhotoDeluxe Business Edition and Premiere LE, Sony's DVgate, PictureGear, and Smart Capture and Connect. Combine these titles with an IEEE 1394 port, and the result is a video buff's dream. The unit also comes with convenient novelties like a keyboard with reflective lettering and an application-specific programmable Jog Dial switch that makes easy work of simple actions like scrolling through Web pages, as well as more complex tasks like changing the mode of the SpeedStep-enabled Pentium III processor.

The PCG-XG19's performance scores were in line with other units using the SpeedStep-enabled 650MHz Pentium III processor. On the Business Winstone 99 and BatteryMark 3.0 tests in maximum

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CUTTING-EDGE PRODUCTS

performance mode, the unit scored a 25.8 and lasted 2 hours and 19 minutes; in battery-optimized mode, the unit scored 23.2 and lasted 3 hours and 30 minutes.

Though pricey, the Sony VAIO PCG-XG19 presents on-the-go users with a full-featured, great-looking traveling companion.

UNWIRED WORLD

For those who can forgo the advanced capabilities of a notebook but still need some degree of mobile Web access, grab a cell phone and start surfing. But you won't be able to hang ten with just *any* phone.

Motorola's sleek gray **Timeport P7389** is one of a growing number of cell phones that enable Web access. This phone operates on three cellular frequencies and can be used around the world, although the amount of Web information you can access is not quite so wide.

The Timeport uses Phone.com's mini-browser to access sites that support Wireless Application Protocol (WAP), which are scaled down for small-screen devices. A site must be optimized for WAP, or you won't be able to access it; the average HTML-based Web site won't load. (See the sidebar "The Wide World of WAP.") Entering URLs is a tedious task requiring you to scroll through the letters on the keypad. The browser also requires some scrolling through text lists until you get to the information you're looking for.

That's just as well, considering the Timeport's small, five-line backlit screen. Web access will add a bit to your monthly service bill; Omnipoint, the service provider for our evaluation unit, charges $10 on top of its basic rate of $19.99 per month. The 3.8-ounce phone itself costs anywhere from $299 to $499, depending on your cellular carrier.

You'll be able to use this phone almost anywhere. The Timeport P7389 is a tri-mode phone that works within all types of Global System for Mobile communications (GSM) networks, including international 900MHz and 1,800MHz systems, and 1,900MHz GSM systems in North America.

Motorola Timeport P7389

We found the quality of voice calls made on the Timeport to be clean and reliable. Other niceties include an earpiece and microphone, voice-activated dialing for up to 25 numbers, a vibrating alert, a 3-minute voice recorder, and Starfish's popular TrueSync Plus software for synchronizing names and numbers from your phone with your PC.

The Timeport lasts about 120 to 210 minutes in talk mode, and anywhere from 40 to 150 hours in standby mode, depending on the GSM service you're using. These ratings are average for an all-digital phone.

If you're a worldwide traveler looking for global connectivity and don't mind the limited Web access, the Timeport could be a timely addition to your carry-on bag.

IN LIVING COLOR

Many itinerant infonauts, on the other hand, like their information completely pocketable, but don't necessarily need constant connectivity. For them, the new $449 **Palm IIIc**, the first Palm unit with a color screen, may be a more compelling electronic companion.

Palm IIIc

The Wide World of WAP

Squeezing a full-color, multimedia-rich Web site onto the tiny screen of a cell phone seems impossible, at least for now. But the 200-plus-member Wireless Application Protocol Forum has hammered out what could be the first step toward making it happen.

The new Wireless Application Protocol (WAP) enables developers to build sites using the Wireless Markup Language (WML), which takes into account the slow wireless data speeds, tiny monochrome screens, and limited memory capacities of most mobile devices. Many big Web sites, such as Yahoo and Amazon.com, are already offering WAP versions of their popular HTML counterparts.

To get on these sites, you'll need a WAP browser; most of today's WAP-enabled cell phones use a version developed by Phone.com. In addition, the Web site itself must be written in WML or accessed through a server that converts the HTML pages into WML.

The beauty of the WAP specification is that, like HTML, it allows designers to create sites that can be accessed with a variety of devices, from Palm handhelds to pagers to cell phones. Furthermore, WAP applications will work over a variety of digital networks, including CDPD, TDMA, and GSM.

In the future, look for more "mobile-commerce" sites that will let you buy with abandon. Shopaholics, whip out your credit cards—and your WAP phones.

—John R. Quain

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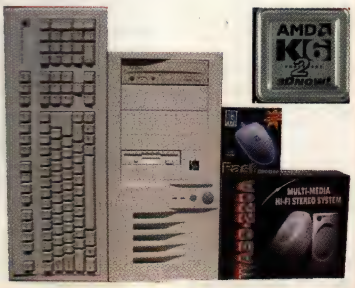

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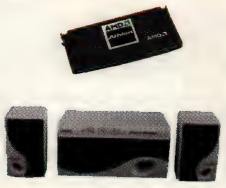

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CUTTING-EDGE PRODUCTS

The long-awaited color Palm delivers less than meets the eye, however. Despite good portability and a bright backlight, low resolution and a relatively high price detract from its appeal.

Palm's designers should be commended for squeezing a color screen into such a small device. At 5.1x3.2x0.7 inches and 6.8 ounces, the IIIc is only slightly larger than its monochrome predecessors and is considerably smaller than 9-ounce color Windows CE units.

But the screen could use some improvement. Though the backlight is impressively bright and the colors vivid, the low 160x160 resolution limits the amount of detail the display can handle. We found that the pixels are spaced a little too far apart, making images look like they're behind a screen door. That could become a little uncomfortable and distracting during extended use.

One of the chief concerns with color displays, no matter how big or small, is that they quickly drain batteries. Palm has done a good job of solving this problem. The IIIc's rechargeable lithium-ion battery, rated for two weeks of normal use, lives up to its promises.

The biggest question may be whether users really need color in a PDA, and Palm's engineers don't seem to be entirely convinced. The device's core applications haven't been fully optimized for color: The basic PIM functions stick with black text on a white background, with blue highlights. Color is, however, nicely integrated into the extras bundled with the unit, which include an advanced calculator, backgammon, and color versions of the AvantGo Web channel program and Album to Go photo-viewing software.

Imaging could certainly be the Palm IIIc's killer app. In fact, Kodak is marketing a handy digital camera that plugs into the PDA's sync port. But the Palm IIIc may not fully realize its tremendous potential until more color apps hit the market—and the device's price drops a little.

Doing Handsprings

When the Handspring Visor hit the market last year, its Springboard expansion slot potentially made it the most protean of PDAs. At press time, many of the Handspring's modules and their prices were not available, but they should be by the time you read this. Now the only question is which module will win the battle for your Visor's single slot.

With its trio of modules, InnoGear ***(www.innogear.com)*** plans to keep all Visor users connected and plugged in. The InfoMitt is a one-way alphanumeric pager. The MiniJam is an MP3 audio player and digital voice recorder. The SixPack combines a 56Kbps landline modem, a modem connector for cell phones, a digital voice recorder, a flashing alarm, a vibrating alarm, and 8MB of RAM.

Shutterbugs will want to check out the Ideo-designed eyemodule ***(www.eyemodule.com)***, a digital camera that snaps color and black-and-white images for viewing on your Visor or your PC. Its fixed-focus lens tops out at a resolution of 320x240, but it stores dozens of images in just a few megabytes of memory.

The Cue Radio ***(www.cue.net)*** transforms the Visor into an FM radio and wireless message receiver. This intriguing module not only plays music from Cue's network of 600 radio stations, but also delivers text-based traffic, news, and weather alerts.

Finally, MarcoSoft's Quo Vadis ***(www.marcosoft.com)*** combines a Global Positioning System (GPS) receiver with graphical mapping software to help you find your way. The module displays your position, direction, speed, altitude, and other vital stats, and includes MarcoSoft's complete library of U.S. maps.

All that remains is for someone to create a Batman-style utility belt to hold all these modules.

—Rick Broida

Pictures Perfect

Image resolution isn't the only area where digital cameras are quickly catching up with their 35mm predecessors. Here are some recent developments that may soon make digital photography a credible substitute for film and darkrooms.

Lasting Prints: Despite their spectacular image quality, photographs printed on inkjet printers can start to fade in just a few years. Epson America's solution is a revolutionary new class of inks guaranteed to last at least 10 years. The first printers to offer this new light-fast ink are Epson's Stylus Photo 870, 875DC, and 1270. Prices start at $299 for the 870 and range to $499 for the 1270.

Extended Battery Life: Notorious battery hogs, some digital cameras can eat standard

Computer Shopper Best Buy June 2000

SHARP SHOOTER

If you're really into digital photography, you'll snap to attention when you see the incredible output of the new 3.3-megapixel digicams. The quality is so great, in fact,

Canon PowerShot S20

< PRODUCT SUMMARY >

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alkaline batteries with only a few dozen shots. But Duracell's new Ultra line of high-current lithium batteries are designed specifically to provide longer life in digital cameras. The company claims that Duracell Ultra batteries last 50 percent longer than heavy-duty alkalines, but in ad hoc testing, we were pleasantly surprised to find them provide nearly three times the life span.

Superior Image Quality: Multimegapixel resolutions are usually achieved by shrinking the physical size of each light-gathering pixel element, a concession that can compromise image quality. Fuji Photo Film's new Super CCD technology attempts to remedy this problem with high-efficiency honeycomb-shaped pixels that reportedly improve saturation and sensitivity, and produce 40 percent greater detail at the same resolution. Fuji plans to ship Super CCD-based cameras within the next few months. *—Don Labriola*

that it rivals prints from a good 35mm film camera at sizes up to 8x10 inches.

That's what we saw using the first camera to break the 3-megapixel barrier, the **Canon PowerShot S20.** This shirt-pocket-size digital camera delivers robust functionality and a sky-high 2,048x1,536 resolution. Its convenient features, such as an easy learning curve, USB and serial-port interfaces, and video output, make it well worth the $799 price.

The S20 includes features you'd expect to find in a high-end digital camera, as well as a few extra luxuries like spot-metering, high-speed through-the-lens focusing, and rechargeable, long-lasting lithium-ion batteries. The S20's 32mm-to-64mm (35mm equivalent) 2x zoom lens is complemented by a 4x electronic digital zoom.

The S20's intuitive controls and compact 1.3x4.1x2.7-inch (HWD) chassis make it a pleasure to use. Connecting it to a PC is a snap, and we were able to squeeze between six and 30 3.3-megapixel images onto its 16MB CompactFlash card. Picture quality was excellent, delivering a level of detail we haven't seen before in a consumer camera. And while the S20 doesn't offer advanced features like image management and special effects, it costs less than 2-megapixel cameras did when they debuted last year.

The Canon PowerShot S20 won't be the only 3.3-megapixel camera to appear this year. Casio, Olympus, and Nikon are already shipping similar units. But the S20 has already set a standard that will be tough to beat.

	Palm IIIc	Sony VAIO PCG-XG19
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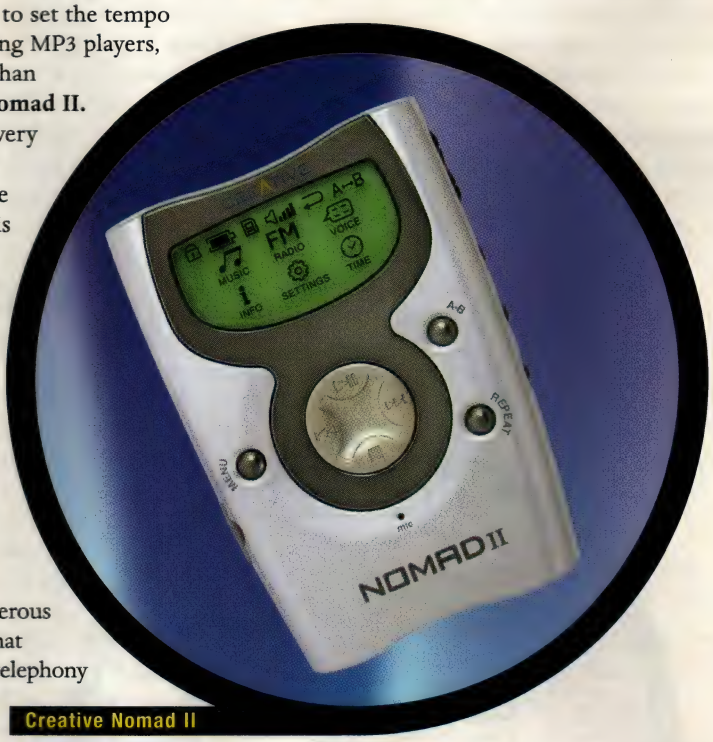
MOBILE MUSIC

For an audio product that's sure to set the tempo among MP3 players, look no further than Creative Labs' **Nomad II.** With its sleek silvery casing and curvy design, it's as nice on the eyes as it is on the ears.

The Nomad II has all the goods, shipping with a roomy 64MB memory card for MP3 file storage, an FM radio tuner, a handheld remote, excellent bass-enhanced headphones, and a generous software bundle that includes Internet telephony software and MusicMatch's MP3 recorder/player.



Creative Nomad II

Our preproduction evaluation unit was a snap to install and use. Plugging the Nomad II into our PC's USB port automatically turned on its power and loaded its plug-and-play driver. Transferring 64MB of files from our PC to the unit took just over 2 minutes, and with a decent sampling bit rate of 96Kbps, we were able to store just under 2 hours worth of music files.

The Nomad's large backlit display and intuitive controls made it a pleasure to operate, and the sound quality was excellent. With features that allow you to create your own folders for mixes and perform batch conversions, the software makes it easy to manage your music library.

Some may consider the Nomad II's $329 price a bit high, but given the current state of the art, this nifty little gizmo is one of the best all-around MP3 players out there.

FOR SERVICES RENDERED

While MP3 players are revolutionizing the music industry, **ASPs,** another emerging trend, could turn the software business on its ear. An ASP, or application service provider, is a new breed of software company that hosts software on its own site and rents, rather than sells, programs to businesses.

Why rent when you can own? The answer is that ASPs may offer the best way yet to alleviate the burden of upgrading and supporting complex business applications. Unlike vendors that simply sell software licenses, ASPs run their own applications on in-house servers and rent access to users through the Internet. Instead of incurring the ongoing costs usually associated with buying, installing, and maintaining onsite software, their customers pay a

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CUTTING-EDGE PRODUCTS

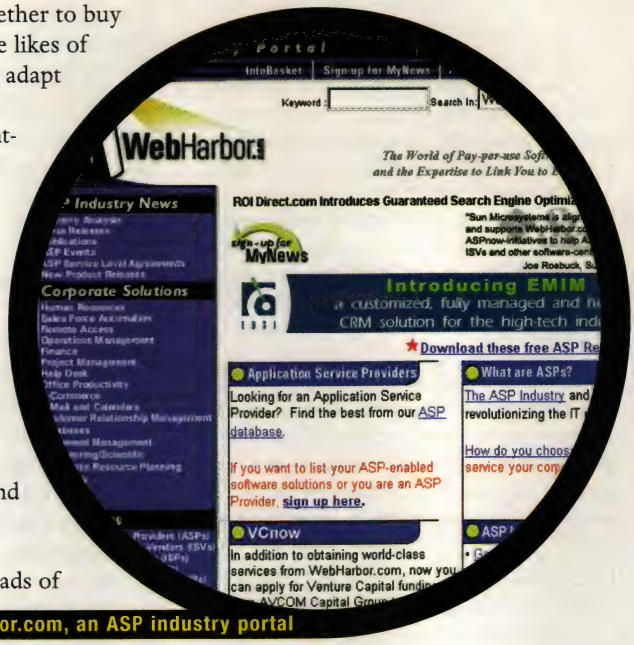
single periodic flat rate or a per-user fee.

Under ideal conditions, this model offers substantial advantages over a conventional software license. By managing all upgrades, bug fixes, and compatibility issues, the ASP lowers demands on its customers' help desks and IT departments, while significantly reducing client hardware requirements. The ASP model also makes sense for software developers, which must otherwise ensure cash flow by releasing frequent upgrades, an approach that eventually results in bloated, complicated programs that are difficult to support and require ever-greater desktop resources to run.

Several nontraditional software companies are joining in because the ASP model requires networking know-how as well as software experience. And given its landscape-altering potential, it's not surprising that heavy hitters like AT&T, Microsoft, Oracle, and Sun Microsystems have all quickly jumped onto the ASP bandwagon.

The downside is the potential for performance and security problems. Bandwidth and data protection are musts. Users will need fat pipes to the Internet and secure lines to get decent performance and reliability; a dial-up connection would be unacceptable for mission-critical tasks.

For many firms, the risk is too big. But the ASP model is barely a year old, and the kinks should be ironed out in time.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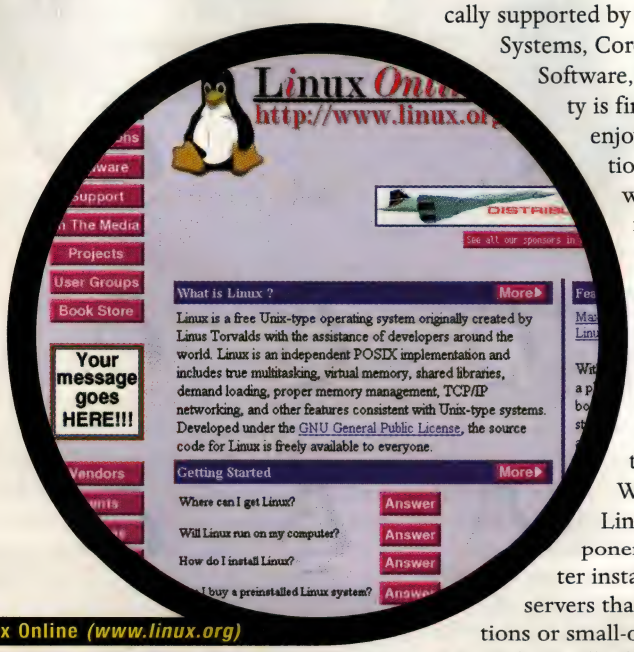
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What is Linux ?
More
Linux is a free Unix-type operating system originally created by Linus Torvalds with the assistance of developers around the world. Linux is an independent POSIX implementation and includes true multitasking, virtual memory, shared libraries, demand loading, proper memory management, TCP/IP networking, and other features consistent with Unix-type systems. Developed under the GNU General Public License, the source code for Linux is freely available to everyone.
Getting Started
More
Where can I get Linux?
Will Linux run on my computer?
How do I install Linux?
Answer
Linux Online *(www.linux.org)*

debate of the moment is whether to buy an operating system from the likes of Microsoft Corp. or to simply adapt an open-code OS like **Linux.** Derived from the Unix operating system, this maverick OS is quickly becoming the first credible Windows alternative since Apple's Mac platform.

In the nine years since its creation by programmer Linus Torvalds, Linux has been ported to platforms as diverse as Sun workstations, Apple Macintoshes, Alpha boxes, and PCs using Intel CPUs dating back to the 16MHz 80386.

Developers have added loads of new features over the last few years, including multitasking capabilities, significant interface improvements, and better installation tools. Now enthusiastically supported by IBM, Intel, Caldera Systems, Corel Corp., and Red Hat Software, the Linux community is finally beginning to enjoy a half-decent selection of application software, system-maintenance tools, communications capabilities, and even full-featured office suites.

Linux, however, is hampered by a user interface that doesn't come close to those of the Mac or Windows 98. Even Linux's most ardent proponents admit that it's better installed on network servers than on client workstations or small-office or consumer PCs. What really distinguishes Linux is the way it's distributed, licensed, and supported, which may help it to quickly incorporate all the features that it currently lacks.

No single company owns the system, and its source code is freely available to anyone who wants to add features or fix bugs. Hundreds of unpaid users around the world actively maintain the software, and official upgrades simply incorporate the new code that's accumulated since the last release.

This so-called open-source model flies in the face of conventional software licensing, which typically involves an initial purchase followed by ongoing fees for support that can be provided only by the developer. Linux vendors, on the other hand, generate revenue by selling enhancements and services, such as documentation, utilities, applications, shells, training, and contract programming.

Linux doesn't yet pose a threat to the huge installed base of Windows systems, but when configured properly, it can be a reliable, low-cost alternative for servers in complex distributed environments. Linux is still a small fish, but it's making big waves.

Reviews by Rick Broida, Elaine C.Y. Chen, Don Labriola, John R. Quain, and Richard S. Shim

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SECTION CONTINUES ON PAGE 168

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GRAPHICS CARDS

GRAPHICS AT WARP SPEED

Six new graphics cards take 3D gameplay into the next dimension.

by Bill O'Brien

Today's mainstream graphics-card vendors are driven by two factors: games and gamers. Not surprisingly, there's been little call from business users for anything beyond stable 2D performance. After all, how fast do you need your spreadsheet to scroll across the screen? PC gamers, on the other hand, want their 3D graphics as fast and realistic as possible.

Over the last few years, we've seen graphics processors, as well as their memory technologies, make giant strides in speed and sophistication. New rendering techniques for large textures ushered in the development of the 1x AGP graphics bus (with a 266MB/sec throughput), and, already, the latest batch of graphics cards run on a 4x AGP bus (1GB/sec). Triangle and polygon rendering technology also continues to advance, poising transform and lighting (T&L) to be the next big thing. (See the sidebar "Making It Look Real.") Although support for T&L is beginning to crop up on some graphics cards, we have yet to see any games designed to take advantage of it.

Competition among graphics-chip and -card vendors is notoriously cutthroat, and the industry has seen a number of power plays in recent years. STB was swallowed up by 3dfx, Hercules is now part of Guillemot, Diamond Multimedia is part of chip maker S3, and Number Nine is somewhere in limbo. Plus, as we were going to press, S3 announced that its chip division was being sold to Via Technologies.

Four of the six cutting-edge graphics cards we picked for this roundup are powered by nVidia's GeForce 256 graphics accelerator and use double data rate (DDR) memory. Our benchmark tests showed only slight differences in the performance of these cards; all four rank as the fastest boards we've seen to date. One of the remaining two cards uses an S3 Savage 2000 processor, and the other comes with dual ATI Rage 128 Pro chips. Both of these cards use regular SDRAM memory, and neither consistently matched the speed of the GeForce cards.

Interestingly, the four GeForce-based cards let you overclock the chip, the graphics memory, or both. Overclocking makes the hardware run faster than it is designed to. In theory, this yields faster overall performance, but it also increases the likelihood of instabilities, including system crashes. In anecdotal testing, not only were there no significant benefits in overclocking any of the cards, all of them exhibited extremely problematic behavior, such as crashes and freezes, when their overclock settings were set too high.

< FACT FILE >

Category Tested	2D/3D Graphics Cards
Price Range	$172 to $284
Minimum Configuration	4x AGP bus, 32MB RAM
Companies Included	ATI Technologies, Creative Labs, Diamond Multimedia Systems, Elsa, Hercules, Leadtek Research

DIAMOND
Corp.

GRAPHICS CARDS

DOUBLING THE DATA RATE

All four of the GeForce 256-based cards here use the latest graphics-memory technology: double data rate (DDR) memory. DDR memory architecture has a distinct performance advantage over single data rate designs typically found on cards using conventional SDRAM and SGRAM.

Single data rate memory can be accessed only once per cycle—either during its rising or falling edge. But DDR memory can be accessed twice—during both the rising and falling edges. Theoretically, this means that DDR memory should run twice as fast as its single data rate counterpart. In fact, all four vendors with DDR cards go so far as to claim that the memory on the cards, which runs at an actual clock speed of 150MHz, should be listed as running at 300MHz.

Our own testing indicates that DDR offers a significant improvement, but it is a far cry from actually being twice as fast as single data rate memory. To illustrate this point, we pitted the DDR-based Creative Labs 3D Blaster Annihilator Pro against its single data rate predecessor, the SDRAM-based Annihilator. Both cards were tested with the identical driver version on our 800MHz Pentium III test system with 128MB of RDRAM.

Running the 3D WinMark 2000 test at a 32-bit color depth, the DDR-based card yielded a hefty 29 percent improvement in performance over the SDRAM-based card. Changing to a 16-bit color depth, DDR's performance advantage dropped to 16.5 percent. Interestingly, we saw no difference between the two memory types on either of the two games or on the 2D Business Graphics WinMark 99 benchmark test.

Why wasn't the DDR card twice as fast? In part, it's because our testbed uses one of the fastest processor-to-memory paths currently available, while the dual-access nature of DDR memory was actually designed to compensate for the shortcomings of comparatively slower systems. (RDRAM and processor speeds as high as those of our test system weren't around when DDR was created.) Consequently, as processor speeds and system-memory technology continue to advance, it will take increasingly more intricate games to widen the performance gap between these two memory architectures. ▼

<COMPUTER SHOPPER BENCHMARKS>

ZD	Creative Labs 3D Blaster Annihilator	Creative Labs 3D Blaster Annihilator Pro
Memory Type	32MB SDRAM	32MB DDR SDRAM
3D WinMark 2000		
32-Bit Color @ 1,024x768	52.7	68.2
16-Bit Color @ 1,024x768	79.9	93.1
3D Game Performance*		
Descent 3		
16-Bit Color @ 1,024x768	47.0	47.3
Quake II		
16-Bit Color @ 1,024x768	86.7	88.9
Business Graphics WinMark 99		
32-Bit Color @ 1,024x768	320	329

* = Results given in frames per second (fps) HIGHER SCORES ARE BETTER

Absent from our roundup are boards from Matrox and 3dfx, both prominent players in the graphics-card industry. Their current offerings feature older technologies that didn't fit our criteria (though 3dfx was expected to ship its new Voodoo4 and Voodoo5 cards by the time you read this). CardExpert, Pine Technologies, and 3Dlabs also were readying new cards unavailable at press time.

ATI RAGE FURY MAXX ★★

PROS: Competitive price
CONS: Disappointing performance; no T&L support; no bundled games; no Windows 95 or NT drivers

Although ATI powers its Rage Fury Maxx with two Rage 128 Pro chips backed by 64MB of SDRAM—twice the amount typically found on current graphics cards—doubling the components still doesn't give the performance boost the card needs to keep up with the GeForce 256 DDR-based cards. The good news, however, is that the board sells for a competitive $260 average price.

ATI refers to its design as Alternate Frame Rendering. Each processor renders alternate frames simultaneously, without having to wait for the other chip, and uses dedicated local graphics memory to prevent artifacts from cropping up in the final image. Conceptually, the arrangement should prove formidable, but when compared to the GeForce 256 cards in this roundup, the Maxx's 2D and 3D performance noticeably lags behind. It does, however, manage to outperform the Diamond Viper II in all areas except for real-world frame-rate performance under Direct3D, as measured by the Descent 3 test.

Although the Maxx's lack of T&L support might not mean much right now, it will count as another strike against the board when T&L-enabled games start coming out. The only software bundled with the Maxx is the ATI DVD Player, and the card lacks drivers for Windows 95 or Windows NT systems.

The ATI Rage Fury Maxx is a bit out of step with the other cards in this roundup. It lacks the leading-edge performance of the GeForce cards and doesn't offer the price advantage of the Diamond Viper II.

CREATIVE LABS 3D BLASTER ANNIHILATOR PRO ★★★★

PROS: Solid performance; good software bundle
CONS: None

The successor to the popular Creative Labs 3D Annihilator, the new 3D Blaster Annihilator Pro also uses a GeForce 256 accelerator, but adds DDR SDRAM memory to its arsenal. Although the combination doesn't blast the card's capabilities far past those of its older counterpart (see the sidebar "Doubling the Data Rate"), the Annihilator Pro is comparable to the other DDR-based GeForce 256 boards in terms of performance and its $250 average price.

Pick any 3D or 2D test we ran—from 3D WinMark 2000 to Quake II with OpenGL—and you'll find the Annihilator Pro running neck and neck with the rest of the GeForce crowd. The card comes bundled with the InterVideo WinDVD player, color-calibration software, the complete version of Need for Speed 4: High Stakes, and a special edition of Evolva: Scout. If you want to get an idea of what T&L can do, the included Dagoth Moor Zoological Gardens provides an excellent demonstration. Although the card doesn't ship with a Linux driver in the box, users of the OS will find one available for download on Creative's Web site.

The Creative Labs 3D Blaster Annihilator Pro offers solid performance and a healthy software bundle. And as the least expensive GeForce card of the group, it offers the best value as well.

Best Buy June 2000

With its supersonic performance, plus composite, S-Video, and DVI outputs, the $254-average **Hercules 3D Prophet DDR-DVI** is a great value.

NOTEWORTHY

The $250-average **Creative Labs 3D Blaster Annihilator Pro** is comparably fast and even comes bundled with a couple of decent games, but it lacks the additional video outputs of the Hercules card.

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GRAPHICS CARDS

GAMES PEOPLE PLAY

If you need a hot game to go with your new graphics card, one of these titles will surely push your machine and your fun quotient to the edge.

American McGee's Alice *(www.ea.com)*: Based on Lewis Carroll's *Alice in Wonderland*, this Electronic Arts game will take you on a twisted journey through the looking glass. Powered by the Quake III Arena engine, it should be released by year's end.

Soldier of Fortune *(www.activision.com)*: Activision's Soldier of Fortune is one of the better first-person shooters you're likely to see this year, but be warned: The cut scenes are not for the squeamish.

Urban Operations *(www.redstorm.com)*: You may already own a copy of **Tom Clancy's Rainbow Six: Rogue Spear,** but you're missing a lot of the action if you haven't gotten your hands on Red Storm Entertainment's new Rogue Spear expansion pack.

The World Is Not Enough *(www.ea.com)*: So you've always wanted to be James Bond? Electronic Arts will give you the opportunity with this new first-person shooter, which should hit the shelves by the end of the year. ▼

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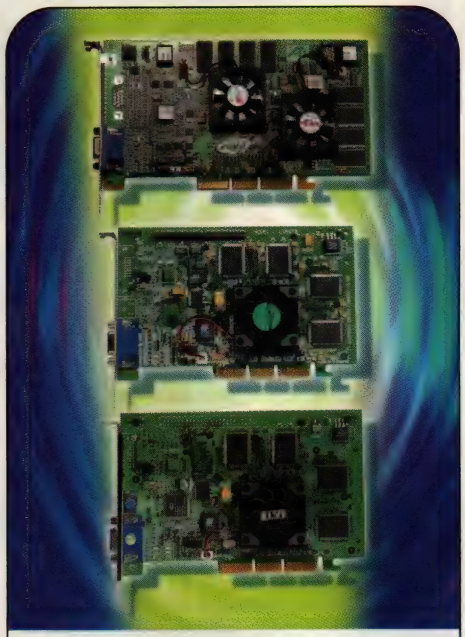

ATI Rage Fury Maxx, Creative Labs 3D Blaster Annihilator Pro, Elsa Erazor X²

DIAMOND VIPER II ★★★

PROS: Excellent price; good software bundle; composite and S-Video outputs

CONS: Disappointing performance; T&L support absent from driver

In addition to boasting a decent software bundle and video-out ports, the Diamond Viper II costs $78 to $112 less than the other graphics cards in this roundup. The flip side is that the Viper II brings up the rear with its lackluster 3D and 2D performance.

The Viper II's Savage 2000 graphics accelerator is S3's latest graphics processor. The Savage 2000 is the only other chip at present besides nVidia's GeForce processor to offer T&L support. However, at press time, Diamond had yet to release a driver update that could take advantage of the Viper II's T&L engine. A full set of user-configurable OpenGL settings within the driver was also still in development.

In testing, the Viper II was last in almost every category by a significant margin. It was only during the Descent 3 test that the Viper II held its own. The card features composite and S-Video output capability. It also comes bundled with the MGI SoftDVD player, a full version of Acclaim TrickStyle, an S3-optimized version of id Software's Quake III Arena, and a coupon for two free additional games from Chumbo.com (though there's a charge of $12.95 for shipping).

If you're seeking screaming performance, the Diamond Viper II should not be your first choice. But if you're replacing a first-generation AGP graphics card and you don't

How We Tested

All six graphics cards were tested on an 800MHz Pentium III Dell Dimension XPS B800r with 128MB of RDRAM, running Windows 98 Second Edition and DirectX 7.0. We used 3D WinBench 2000's 3D WinMark 2000 test to measure 3D graphics performance. The test was run once with the system set to 1,024x768 with 32-bit color at 85Hz, and then a second time set to 1,024x768 with 16-bit color at 85Hz.

We measured 2D graphics performance using WinBench 99's Business Graphics WinMark 99 test, with the system set to 1,024x768 with 32-bit color at 75Hz. Frame rates were measured using two games: Quake II, which uses OpenGL, and Descent 3, which is a Direct3D game. Both games were tested with the system set to 1,024x768 with 16-bit color and 85Hz. Each card's "wait for vsync" setting was disabled to avoid artificial frame-rate limits. ▼

(continued on page 176)

< COMPUTER SHOPPER BENCHMARKS >

	ATI Rage Fury Maxx	Creative Labs 3D Blaster Annihilator Pro	Diamond Viper II	Elsa Erazor X²	Hercules 3D Prophet DDR-DVI (Best Buy)	Leadtek WinFast GeForce 256 DDR
3D WinMark 2000						
32-Bit Color @ 1,024x768	55.5	68.2	50.2	67.6	70.8	66.2
16-Bit Color @ 1,024x768	71.0	93.1	63.1	92.1	98.7	91.0
3D Game Performance*						
Descent 3						
16-Bit Color @ 1,024x768	40.8	47.3	48.0	47.2	47.3	47.5
Quake II						
16-Bit Color @ 1,024x768	73.4	88.9	62.7	88.7	94.1	90.0
Business Graphics WinMark 99						
32-Bit Color @ 1,024x768	307	329	263	339	331	334

* = Results given in frames per second (fps) — HIGHER SCORES ARE BETTER

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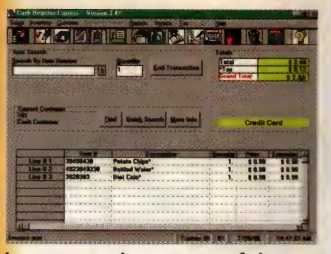

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- 15" (13.8" vis) M570 Monitor (up to Flat Panel)
- Intel® 3D AGP Graphics, 24X Max Slimline CD-ROM
- Integrated 3Com® 10/100 NIC
- NEW Microsoft® Windows® 2000 Professional
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- 3-Yr Next-Business-Day On-site Service[3]

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BUSINESS LEASE: $40/MO., 36 MOS.
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- Intel® 3D AGP Graphics, 40X Max CD-ROM
- MS® Windows® 98 & MS® Works Suite 2000 and Norton AntiVirus™ 2000
- 3-Yr Ltd. Warranty,[2] 1-Yr NBD On-site Service[3]
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$799 E•VALUE CODE 05802-590507

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(continued from page 172)

GRAPHICS CARDS

< FEATURE COMPARISON >

To view the complete version of this table online, go to cgi.zdnet.com/slink?28565.	ATI Rage Fury Maxx	Creative Labs 3D Blaster Annihilator Pro	Diamond Viper II	Elsa Erazor X²	Hercules 3D Prophet DDR-DVI
AVERAGE PRICE	$260	$250	$172**	$283	$254
CONFIGURATION					
Graphics Accelerator	Two ATI Rage 128 Pros	nVidia GeForce 256	S3 Savage 2000	nVidia GeForce 256	nVidia GeForce 256
Graphics Accelerator Speed	Vendor will not disclose	120MHz	125MHz	120MHz	120MHz
Installed Memory	64MB SDRAM	32MB DDR SDRAM	32MB SDRAM	32MB DDR SDRAM	32MB DDR SDRAM
Installed Memory Speed	143MHz, 7ns	150MHz, 6ns	143MHz, 6ns	150MHz, 6ns	150MHz, 6ns
Accelerator/Memory Can Be Overclocked	No/no	No/yes	No/no	Yes/yes	Yes/yes
Connectors	VGA	VGA	VGA, S-Video, composite	VGA	VGA, S-Video, composite, DVI
GRAPHICS MODES					
Maximum 2D Noninterlaced Resolution	1,600x1,200 with 32-bit at 90Hz	2,048x1,536 with 16-bit at 75Hz	2,048x1,536 with 32-bit at 200Hz	1,920x1,440 with 32-bit at 85Hz	2,048x1,536 with 32-bit at 60Hz
Maximum 3D Noninterlaced Resolution	1,600x1,200 with 32-bit at 90Hz	1,600x1,200 with 32-bit at 100Hz	2,048x1,536 with 32-bit at 200Hz	1,920x1,440 with 32-bit at 85Hz	2,048x1,536 with 32-bit at 60Hz
Maximum Z-Buffer Depth	32-bit	32-bit	32-bit	32-bit	32-bit
Hardware Transform and Lighting	No	Yes	Yes*	Yes	Yes
SOFTWARE					
Supported Operating Systems	Windows 98, 2000*	Windows 95 OSR2, 98, 2000, NT 4.0, Linux	Windows 95, 98, 2000, NT 4.0	Windows 95, 98, 2000, NT 4.0	Windows 95 OSR2, 98, 2000, NT 4.0
DVD Movie Player Software Included	ATI DVD Player	InterVideo WinDVD	MGI SoftDVD	None	CyberLink PowerDVD
Included Games	None	Need for Speed 4: High Stakes, Evolva: Scout	Acclaim TrickStyle, Quake III Arena, two additional games from Chumbo.com for $12.95	None	None
Other Applications	None	E-Color Colorific and 3Deep, Dagoth Moor Zoological Gardens demo	Games demo CD	E-Color Colorific and 3Deep, Games demo CD	E-Color Colorific and 3Deep
SERVICE AND SUPPORT					
Standard Warranty (Parts and Labor)	Five years	Three years	Five years	Six years	Three years
Live Toll-Free Technical Support	No	Yes	No	Yes	Yes
Live Technical-Support Hours (ET)	9 a.m. to 7 p.m. M-F	9 a.m. to 11 p.m. M-Sa, 1 p.m. to 9 p.m. Su	8 a.m. to 10 p.m. M-Th, 8 a.m. to 2 p.m. and 4 p.m. to 10 p.m. F, 11 a.m. to 7 p.m. Sa	11 a.m. to 8 p.m. M-F	8:30 a.m. to 7 p.m. M-F
Online Technical Support	E-mail, Web	E-mail, Web	BBS, e-mail, Web	E-mail, Web	E-mail, Web

* = When available ** = Does not include $20 rebate

need maximum speed, the Viper II's $172 average price, before a $20 mail-in rebate, can't be beat.

ELSA ERAZOR X² ★★★

PROS: Solid performance; outstanding control panel with pixel-level variable resolution settings
CONS: Expensive; no game bundle; no software DVD player

Both the Elsa Erazor X² and its successful predecessor, the Erazor X, are powered by GeForce 256 accelerators, but the $283-average Erazor X² ups the ante by adding faster DDR memory.

While the Erazor X² is easily faster than both the Diamond Viper II and ATI Rage Fury Maxx cards, its top-notch 2D and 3D performance is equivalent to that of the other three GeForce DDR boards. What the Erazor X² lacks, however, is a software bundle. The only software included with the board is the same set of color-calibration apps that come with all the other GeForce cards. The Erazor X² doesn't even package a software DVD player—something that all five of the other cards have.

Nevertheless, the Erazor X² has one of the most flexible resolution, color-depth, and refresh-rate management control panels we've ever seen. You can adjust your display resolution both horizontally and vertically in increments as small as one pixel. Although this kind of flexibility may result in some odd aspect ratios and is constrained by the monitor's capabilities, it's a whole new level of freedom for users who can't stop tweaking their display settings.

You can't go wrong with the Elsa Erazor X²'s performance or powerful control-panel utility. But its high price and lack of bundled software might prompt you to consider other options.

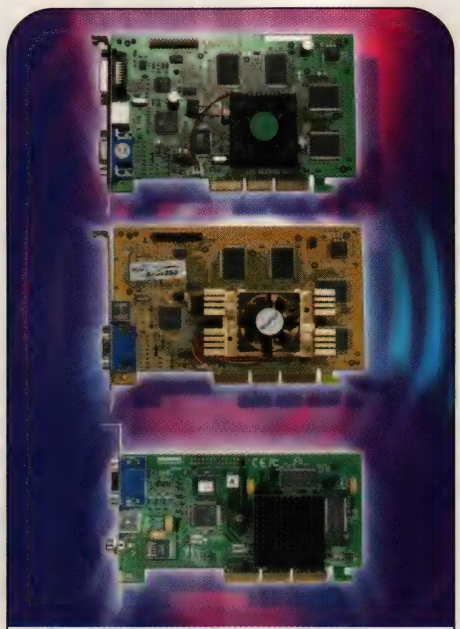
HERCULES 3D PROPHET DDR-DVI ★★★★

PROS: Best performance of the group; composite, S-Video, and DVI outputs
CONS: Skimpy software bundle

Best Buy June 2000

A lot more than the name has changed on the Hercules 3D Prophet DDR-DVI, the next evolutionary step up from the GeForce 256-based Guillemot 3D Prophet card. The Hercules card uses DDR memory and comes standard with a DVI output for digital flat-panel monitors.

The 3D Prophet DDR-DVI kicks out the same swift performance as the other three GeForce cards in this roundup. However, if you're splitting hairs, the 3D Prophet DDR-DVI pulls slightly ahead of the pack with the fastest overall showing



Hercules 3D Prophet DDR-DVI, Leadtek WinFast GeForce 256 DDR, Diamond Viper II

GRAPHICS CARDS

MAKING IT LOOK REAL

You're running down a hall with both guns blazing, chasing the mercenaries who just stole the nuclear warhead you were guarding. You turn a corner and come face-to-face with a brick wall. It's just a game, but you feel as though you could reach out and touch the bricks.

They look that way thanks to texture maps generated by the game's programming code and the capabilities of your graphics card. It's a technology called "rendering," and it's one of the things that AGP was specifically designed to do. Rendering requires relatively little processing power, and it can produce good-looking results. For instance, Quake II's polygon count only climbs to about 10,000, and yet the game's objects display adequate definition (as long as you don't look *too* closely). Rendering is the technique many games, and most graphics-card manufacturers, currently support.

With its GeForce 256 accelerator, however, nVidia takes the approach of increasing the polygon count instead. The GeForce 256 supports a newer technique called transform and lighting (T&L), which takes a few extra steps by describing what is happening under the textures, as well as determining the number of polygons on which the textures are draped and how the finished forms are to be lit.

The company is on the right track: The more polygons you use, the better an object's overall detail level will appear. Imagine a character with ultrarealistic-looking anatomical features rather than just shades of different colors representing cheeks and chin. So far, the S3 Savage 2000 is the only other graphics chip to have support for T&L. But whereas S3 says the Savage 2000 chip used on the Diamond Viper II card can handle T&L, a driver supporting the feature was still forthcoming as we went to press.

In any event, no games use T&L right now, and none may appear before the end of the year. Until then, there's no way to tell if T&L will take hold as the new standard. ▼

Leadtek WinFast GeForce 256 DDR
$284
nVidia GeForce 256
120MHz
32MB DDR SGRAM
150MHz, 6ns
Yes/yes
VGA, S-Video, composite
2,048x1,536 with 16-bit at 75Hz
2,048x1,536 with 16-bit at 75Hz
32-bit
Yes
Windows 95, 98, 2000, NT 4.0
InterVideo WinDVD
None
E-Color Colorific and 3Deep
Three years
No
Noon to 8:30 p.m. M-F
E-mail, Web

LEADTEK WINFAST GEFORCE 256 DDR ★★★

PROS: Solid performance; composite and S-Video outputs
CONS: Expensive; lean software bundle

Like Creative Labs and Guillemot, Leadtek also has a DDR version of its WinFast GeForce 256 card. The WinFast, which sells for an average price of $284, is one of the more expensive cards in this roundup. Bucking the trend of the other GeForce 256 DDR card manufacturers, however, Leadtek packs its board with DDR-SGRAM rather than DDR-SDRAM.

Although we expected to see a slight performance advantage from the SGRAM, the WinFast was actually the slowest of all the GeForce cards on the 3D WinMark 2000 tests. But it was by a very slight margin, and the WinFast ran through our 2D and 3D performance tests at about the same pace as the three other GeForce cards. The WinFast offers both S-Video and composite outputs, but the only bundled software is a set of color-calibration apps and the InterVideo WinDVD player.

The Leadtek GeForce 256 DDR's performance is close enough to the other GeForce cards that you'd be hard-pressed to notice the difference. Its higher price may give you pause, but it is one of only two GeForce cards here to include video-out capabilities.

LET'S GET READY TO RENDER

If you want the extreme performance that's currently available only from DDR-based GeForce 256 cards, and you're not looking for bundled games, the Hercules 3D Prophet DDR-DVI is a strong contender—and its video and DVI outputs add to its value. But if you just want to replace an aging graphics card and can forgo lightning-fast performance, the Diamond Viper II may be more your speed with its wallet-friendly price tag.

Obviously, because they all offer about the same level of performance, Creative's 3D Blaster Annihilator Pro, Elsa's Erazor X^2, and Leadtek's WinFast GeForce 256 DDR are all solid choices. The Annihilator Pro comes in at the low end of the price spectrum for a GeForce card and includes a decent software bundle, too. The WinFast costs a bit more, but it features video-out capabilities that the Annihilator Pro and Erazor X^2 both lack. ▼

COMPUTER SHOPPER Price It!™	code
ATI Rage Fury Maxx	24912
Creative Labs 3D Blaster Annihilator Pro	24913
Diamond Viper II	24914
Elsa Erazor X^2	24915
Hercules 3D Prophet DDR-DVI	24916
Leadtek WinFast GeForce 256 DDR	24917

For real-time pricing, go to *priceit.zdnet.com* and enter number.

< PRODUCT SUMMARY >

RATED 1 TO 5 STARS	★★	★★★★	★★★	★★★	★★★★	★★★
PRODUCT	ATI Rage Fury Maxx	Creative Labs 3D Blaster Annihilator Pro	Diamond Viper II	Elsa Erazor X^2	Hercules 3D Prophet DDR-DVI Best Buy	Leadtek WinFast GeForce 256 DDR
COMPANY	ATI Technologies Thornhill, ON, Canada 905-882-2600 *www.atitech.com*	Creative Labs Stillwater, OK 800-998-1000 *www.creaf.com*	Diamond Multimedia Systems San Jose, CA 800-468-5846 *www.diamondmm.com*	Elsa Santa Clara, CA 800-272-3572 *www.elsa.com*	Hercules Montreal, QC, Canada 877-484-5536 *www.hercules.com*	Leadtek Research Fremont, CA 888-532-3835 *www.leadtek.com*
AVERAGE PRICE	$260	$250	$172	$283	$254	$284

WEB-SITE CREATION TOOLS

CREATING THE Perfect SITE

These five programs pack tools for creating powerful Web sites.

BY JIM FREUND

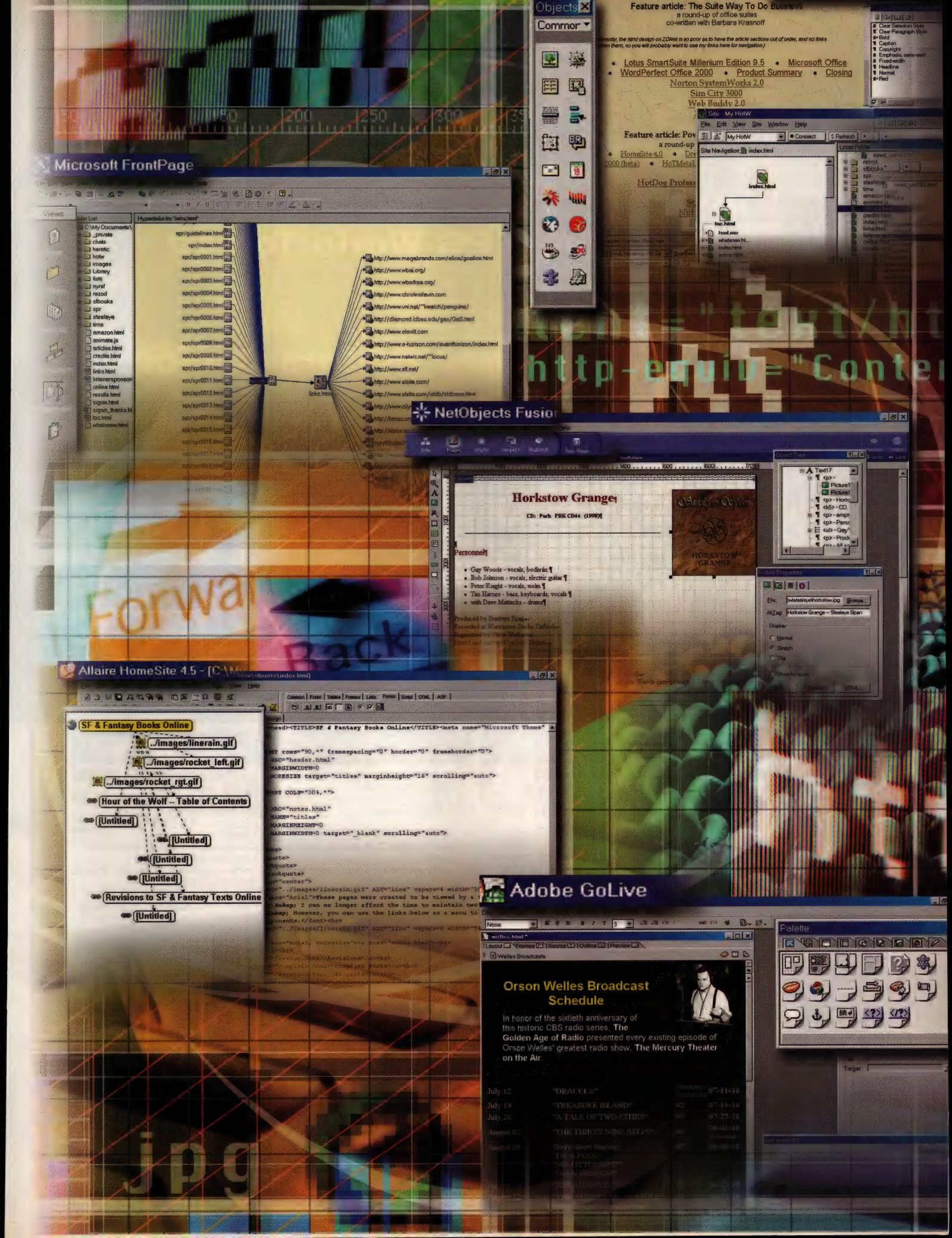
In the past, applications that created Web pages were divided into two camps: text-based HTML editors and layout-based WYSIWYG tools. Each had their limitations. HTML editors were primitive and ugly, designed to give programmers the maximum amount of control over the code they created; WYSIWYG editors traded a large measure of control for an eye-pleasing interface and sloppy code.

Today's Web-site creation tools offer a hybrid of the two. Most are layout-centric, but these tools have gotten much better at creating clean HTML and have either beefed up their own code-editing tools or come bundled with third-party solutions. They also pay more attention to the niceties of Web design, such as compatibility with older browsers and the inclusion of Alt tags. And some go a step further by providing the ability to edit or incorporate special functionality, from a QuickTime editor to single-click creation of discussion boards.

The latest site-design programs have a lot to offer. We looked at five: Adobe GoLive 4.0, Macromedia's Dreamweaver 3, Allaire's HomeSite 4.5, Microsoft FrontPage 2000, and NetObjects Fusion 5.0.

(continued on page 182)

ILLUSTRATION BY ERIC YANG


Objects
Common
Feature article: The Suite Way To Do Business
a round-up of office suites
co-written with Barbara Krasnoff
Lotus SmartSuite Millenium Edition 9.5
Microsoft Office
WordPerfect Office 2000
Product Summary
Closing
Norton SystemWorks 2.0
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Horkstow Grange
Personnel
Allaire HomeSite 4.5
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../images/rocket_rgt.gif
Hour of the Wolf – Table of Contents
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Revisions to SF & Fantasy Texts Online
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Pentium III Processor 600MHz $1499
Pentium III Processor 667MHz $1599
Pentium III Processor 733MHz $1659

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- 56K V.90 PCI Voice/Fax/Data Modem
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$959

Pentium III Processor 533MHz $919
Pentium III Processor 667MHz $1059
Pentium III Processor 733MHz $1199
Pentium III Processor 800MHz $1359

AXISORIONCXV

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(continued from page 179)

WEB-SITE CREATION TOOLS

ADOBE GOLIVE 4.0 ★★★

PROS: Good multimedia capabilities; suitable for complex pages
CONS: Less useful for designing in HTML 3.0 or earlier; obscure interface; better for Mac than PC

Adobe GoLive 4.0 is a graphic designer's dream come true. The program operates on the paradigm that layout is king. It gives you as much control over the presentation of your site as possible—at the cost, however, of usability.

GoLive goes out of its way to protect you from the standard nomenclature and concepts of typical Web-page design. For instance, you can place layout grids for all your elements, from text to graphics, and use layers and tables to make sure that the layout is maintained. The program creates the actual code automatically in the background, and while the resulting pages appear as you laid them out, they will not be very dynamic.

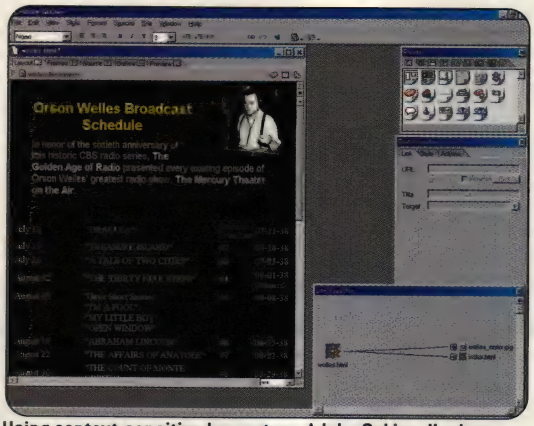
Other programs would do well to emulate a number of exceptional features in GoLive. Features such as Java and JavaScript support, database integration, and XML code, considered extras in other programs, are fully integrated with this program and its interface. And GoLive includes a QuickTime editor so not only can you incorporate movies into your pages, you can also coordinate them with HTML-based pages popping up on cue in separate frames.

For all its nods to graphic design, GoLive gives you access to the HTML source code in its own editor, and the Outline view treats the text like object-oriented coding. This feature is helpful if you've got object-oriented training, but not if you're accustomed only to more typical HTML coding standards.

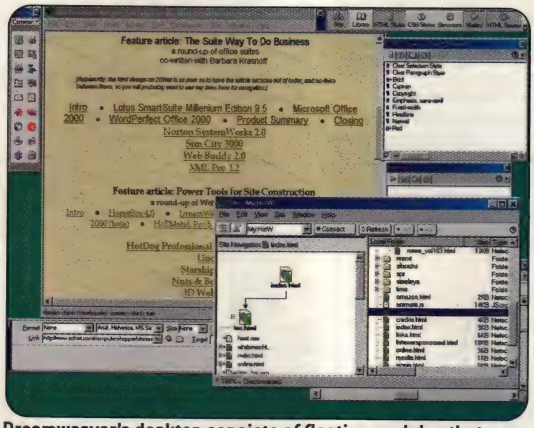
The program's interface is clean, thanks to a clever, context-sensitive Inspector that keeps open only the window being worked on. A tabbed palette contains icons for most elements, and you can drag and drop them into your design. Access to some of the most basic tools, however, is unnecessarily convoluted.

GoLive's learning curve can be steep, especially if you're working with the tutorial and find yourself wading through platform-specific instructions such as "If you are in Windows, right-click Open. If you are using a Mac...."

Adobe GoLive 4.0 creates an environment well-suited for graphic designers, but it's likely to present a significant challenge to those versed in traditional HTML coding. Used as a vertical application with other Adobe products, it makes a great deal of sense, but be prepared to buy into that family-of-products philosophy—and perhaps into the Mac platform, as well.



Using context-sensitive Inspectors, Adobe GoLive displays only the tools you need when you need them.



Dreamweaver's desktop consists of floating modules that you open and close according to your needs.

DREAMWEAVER 3 ★★★★

PROS: Powerful and comprehensive; good interface; works well with many third-party apps
CONS: Steep learning curve; requires lots of screen real estate

Macromedia's Dreamweaver 3 represents a major step forward in the evolution of WYSIWYG design tools. Instead of trying to protect you from HTML, Dreamweaver embraces it while still putting a full palette of design tools at your disposal. It's an extremely powerful program. Though it's tough to master, Dreamweaver is worth the trouble for anyone set on being a Web-design professional.

Dreamweaver doesn't have a unified desktop—you work with a series of floating modules that can be opened or closed depending on your immediate needs. Your actual workspace is the Document window, in which you build your page. You can conveniently drop elements into the Document window from Explorer or other sources. Highlight a specific asset or text, and a status bar at the bottom of the Document window displays the HTML tags that control what you've highlighted.

A configurable Launcher toolbar allows you to quickly manage and launch additional modules. The Site module, for instance, uses two windows to display local and remote files. You can transfer files via FTP by dragging them from one window to the other. The Library palette lets you drag assets, templates, styles, or complete style sheets to and from the Document window. The Behaviors module performs like an object-oriented library, letting you drop events or actions onto text or graphics at will. And the History module not only stores your previous actions, but it also allows you to save them singularly or in groups to create a macro library. The program even has

Site-Building Resources Online

As much as the graphical tools may protect you from HTML code, you still need at least a passing understanding of what's behind the front end of a Web page. And while a number of informative Web sites continue to cater to hard-nosed coders, others aim to give less technical site builders a leg up.

- Most of the manufacturers of the products covered here offer more than tech support on their pages. **Microsoft,** for one, maintains tutorials, advice, and a sound and image gallery at ***msdn.microsoft.com/workshop.***
- The **National Computational Science Alliance** ***(www.ncsa.uiuc.edu)*** offers an excellent primer for those who want to learn the code and follow the latest in Web development from the hard-edged point of view.
- **Web Review** ***(www.webreview.com)*** has an excellent reputation for fine how-to articles, reviews, and discussions on Web design.
- Some of the best discussions on site usability and human/machine interface issues are at Jakob Nielsen's **Useit** site ***(www.useit.com)***. ▼

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an HTML Source window, but because HomeSite ships with Dreamweaver, you're likely to use this only for simple, quick fixes.

A separate Object palette provides easy access to common commands and special elements such as frames and forms. In addition, a context-sensitive inspector is always on hand. It displays and lets you edit information about whatever asset is currently highlighted.

Dreamweaver's learning curve is a small price to pay for a program this powerful, especially if it's a tool critical to your profession. Fortunately, the online help is well-constructed and navigable, and the consistent (if initially confusing) interface is strong enough to get you past any hurdles in a reasonable amount of time.

HOMESITE 4.5 ★★★★★

PROS: Powerful; complete control over code; easy to use
CONS: Small icons; graphics mode not very powerful

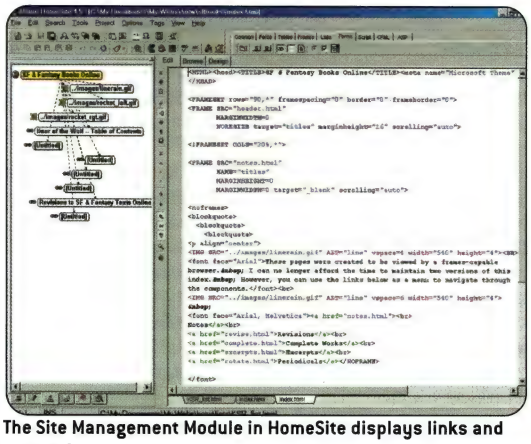
Many Web designers still believe that creating a good site requires working from the source code up. For them, Allaire's HomeSite 4.5 is the best choice. Though Allaire incorporated a limited graphic-design feature into its software some time back, it's more for tweaking than anything else. The power of this program lies in its easy-to-use interface, which with its full set of configurable menus, tabs, and assorted icons, gives you complete control over the content, usability, and interactivity of your site.

Best Buy June 2000

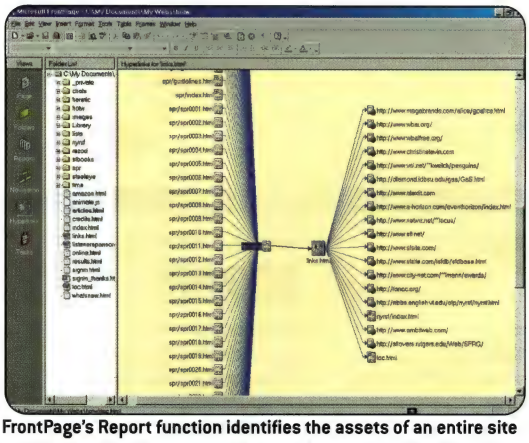
Giving you the maximum control over your site through an easy-to-use interface, Allaire's **HomeSite 4.5** is the best of the bunch.

HomeSite retains the familiar two-paned interface of traditional text editors. In the right pane is Allaire's Speed Bar, which includes a series of tabs that change the toolbar to groupings of commands likely to be used in tandem, including those for fonts, tables, forms, plug-ins for Cold Fusion (Allaire's popular database program), and ASP pages. Also in the right pane is the Resource Window, which has tabs for files, projects, site view (displaying links and assets for the open page), snippets (which can place code before and after a highlighted tag), online help, and a tag inspector. The right side of the screen is the work area where you can switch among your code, the preview mode, and a rudimentary WYSIWYG editing view.

Working with HomeSite requires that you know HTML. The program goes a long way toward assuring that your code is valid by anticipating the tags you're typing in, displaying and letting you select the possible parameters on the fly, and closing tags automatically once your intent is clear. The validation process, however, can be a bit strict, particularly when it comes to commands that may not play as strong a role in future versions of HTML. (The constant reminder in bright red that "In HTML 4.0, FONT is deprecated" quickly becomes an annoyance.)



The Site Management Module in HomeSite displays links and assets for the open page.



FrontPage's Report function identifies the assets of an entire site and displays the information in several ways, including links.

HomeSite 4.5 has so many powerful features—from multifile search-and-replace to a JavaScript wizard that puts special functions on your pages—that you might never want to give it up. At the very least, you'll want to keep it around to work in tandem with your preferred graphics editor.

MICROSOFT FRONTPAGE 2000 ★★★★

PROS: Same interface as Office; integrates with Windows; excellent site-wide manipulation of assets
CONS: Complex code editor; requires proprietary software at host

Generally, at the mention of Microsoft FrontPage, HTML purists groan while corporate users raise their eyebrows in anticipation. The former group tends to dislike the code that Microsoft produces and disdains the lack of support for products developed (or acquired) outside of Redmond. The latter appreciates the integration with the Microsoft Office suite, which is ubiquitous in most enterprise-size companies.

The considerable headway Microsoft FrontPage 2000 makes, however, should please both camps. First, the code has been cleaned up, and you can set preferences for how you want it to appear—nested or flat text, uppercase or lowercase on tags and parameters. In the past you could only count on support for the latest version of Internet Explorer, but now you can design for Netscape-specific features and maintain pages compatible with older browsers.

Among FrontPage's strongest points are its collaborative capabilities. Pages on a file or Web server can be checked in or out, leaving notes about who has done what work to individual pages, and what remains to be done. You can easily incorporate several features normally requiring CGI-bin access or Perl programming, such as discussion groups, Web counters, or search forms. To use these features, the server that hosts your Web site must provide support for FrontPage extensions, which is becoming increasingly common among commercial hosts.

Microsoft has also leveraged its knowledge of the Windows environment to great advantage. For example, should you move a file or image from one directory to another, all links throughout the site referencing that file are updated accordingly. The text editor has improved as well.

Learning the program is not too difficult, particularly if you are familiar with other Office products. You can accomplish some sophisticated effects without much difficulty. However, the abundance of features and tools means that the learning never really stops, and you'll find yourself continually looking up how to use features you don't use on a regular basis. The online help offers assistance, but it's not as extensive as one might hope, and it's prone to using nomenclature unfamiliar to most Web designers.

Despite a mass of tiny icons on the toolbars, FrontPage's desktop remains uncluttered. The main area of the screen is divided into three parts: Views, Folder List, and Workspace. The Views space includes a Page section, which has tabs for graphic or HTML

(continued on page 188)

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(continued from page 183)

design modes, and a Reports section, which identifies your assets and lets you break them out any number of ways, including by broken links, date last updated, or load times. Views also includes the Navigation section, which emulates NetObjects Fusion's site-management tools and helps you create dynamic navigation bars; Hyperlinks, which displays a graphic representation of all referenced files; and Tasks, which displays the to-do lists left by any and all who've been working on files within the site. The Workspace, of course, changes according to the View in use.

If the server hosting your Web site doesn't support FrontPage extensions, Microsoft FrontPage 2000 probably isn't the tool for you. But if it does, you'll appreciate the relatively simple access to advanced design features and the one-click updating of pages to the server.

NETOBJECTS FUSION 5.0 ★★★

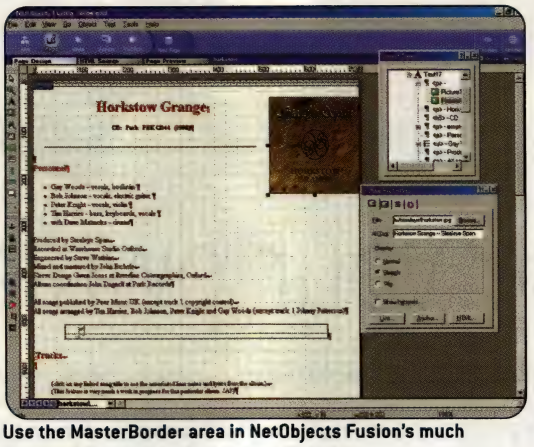
PROS: Excellent site management; good for intranet or e-commerce sites

CONS: Sites are identifiable as Fusion-created; doesn't integrate well with other tools

NetObjects Fusion 5.0's greatest strength is its ability to design the overall Web site, not individual pages. The tools provided for working from a top-down view on intricate sites are the best of the lot. Fusion has an excellent interface for adding large numbers of pages in one fell swoop, and then adding the content later. This makes it ideal for creating corporate intranets, in which the content has been developed independently and needs to be incorporated into the structure at a different stage in the process.

Five main tabs provide most of the keys to this kingdom. The Site tab handles the structure of the entire project. The Page tab is where you design your layout, using a MasterBorder area as a template for all or some of your pages. In this area, you set your frame layout, navigation bars, and other constants. The individual page's content takes up the rest of the screen. The

Style tab is particularly nifty: It uses two subtabs to separate the graphic look and feel from the textual style. Rather than separate style sheets into their own category as other programs usually do, Fusion creates them as needed. The Assets tab tracks individual elements of your site, and the Publish tab shows you the directory layout as seen by the server. The program's menus change



Use the MasterBorder area in NetObjects Fusion's much improved Page tab to design your Web site.

depending on the current tab selected.

In the past, Fusion seemed inflexible in terms of the design it created, but this version shows marked improvement. Three settings let you trade off layout precision against browser compatibility with older versions of HTML code.

It seems the philosophy behind the interface is to protect the user from HTML. Attention is given to object placement and behavior, and Fusion builds the code in the background. This is all well and good, but other programs that may need to deal with your code won't find it so easy to incorporate.

Nevertheless, the internal text editor does a decent job of letting you tweak, though it is a little untraditional. Blocks of code are nested and highlighted according to object or action, and they are represented by a tree on the left in a manner similar to traditional coding packages', if not HTML's.

The online help is extensive, especially when accessed through the right-click menus. Even so, you will want to take a look at the tutorials, because some interface tricks are not immediately apparent.

NetObjects Fusion 5.0's distinct mind-set should appeal to Web designers who have an understanding of layout and interactive techniques, but little patience for HTML, JavaScript, or similar enhancements and plug-ins. However, if you don't want pages that sport a distinct Fusion look, and prefer more conventional site-building methods, it might not be the best fit for you.

TRAIN YOUR SITES

All five of these products are worth considering. Dreamweaver 3 is the best of the graphics class, with many innovative tools for your design arsenal. Microsoft FrontPage 2000 is well-suited to those already familiar with the Microsoft family of software. NetObjects Fusion 5.0 is good for creating intranets, particularly if you already have a lot of content that needs to be incorporated into a navigable design. Adobe GoLive 4.0 caters to the designer with a background in professional layout. And HomeSite 4.5 goes back to the basics, enabling nonprogrammers to incorporate sophisticated interactive features.

Every product reviewed here offers a trial version. Use these to do some testing of your own, and soon you'll know with certainty which program is designed for you. ▼

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< PRODUCT SUMMARY >

RATED 1 TO 5 STARS	★★★	★★★★	★★★★★	★★★★	★★★
PRODUCT	**Adobe GoLive 4.0**	**Dreamweaver 3**	**HomeSite 4.5** Best Buy	**Microsoft FrontPage 2000**	**NetObjects Fusion 5.0**
COMPANY	**Adobe Systems** San Jose, CA 800-833-6687 ***www.adobe.com***	**Macromedia** San Francisco, CA 415-252-2000 ***www.macromedia.com***	**Allaire Corp.** Cambridge, MA 888-939-2545 ***www.allaire.com***	**Microsoft Corp.** Redmond, WA 800-426-9400 ***www.microsoft.com***	**NetObjects** Redwood City, CA 888-892-0702 ***www.netobjects.com***
REQUIRES	PC: 200MHz Pentium or faster; 32MB RAM; 50MB hard drive space; Windows 98, 2000, or NT 4.0. Macintosh: Power Mac; 24MB RAM (32MB recommended); 30MB hard drive space; OS 8.0 or later	120MHz Pentium or faster; 32MB RAM; 20MB hard drive space; Windows 95, 98, or NT 4.0	75MHz Pentium or faster; 32MB RAM; 20MB hard drive space; Windows 95, 98, or NT 4.0	75MHz Pentium or faster; 24MB RAM (40MB RAM for Windows NT); 167MB hard drive space; Windows 95, 98, or 2000, or NT 4.0 (Workstation or Server) with Service Pack 3	133MHz Pentium or faster; 32MB RAM; 100MB hard drive space; Windows 95, 98, 2000, or NT 4.0
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- > Smart Lithium-Ion Battery
- > Infra Red, Wireless Fast IR Interface
- > 1 IEEE 1394 Port
- > 2 USB Ports & 1 TV-Out Port
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
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- > 3D Surround Sound with Hardware Wavetable
- > 2 Built-In Stereo Speakers and 1 Built-In Microphone
- > Built-In Touchpad Pointing Device
- > 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- > Smart Lithium-Ion Battery
- > Infra Red, Wireless Fast IR Interface
- > 2 USB Ports & 1 TV-Out Port
- > Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- > Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
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BUYING ONLINE

Pry BEFORE YOU BUY

Shopping online doesn't have to be risky. Here's where to find all the information you need to make an informed purchase.

BY DAN COSTA

Given the recent proliferation of shopping bots and other price-comparison engines, you might think that online shopping was simply about choosing the best price. It isn't. As with any other shopping experience, you should know not only how much a product is worth, but who you're handing your money to.

"Unfortunately, the best price does not always indicate the best vendor," says Michael Clebnik, CEO of the Boston-based Stumpworld Systems, which owns the BuyItOnline.com shopping portal and the Online Merchant store-building-software product line. According to Clebnik, a company's customer-service policy is a much better indicator of its reliability. Responsible vendors will make this kind of information easily available to consumers. Even then, however, smart shoppers should conduct additional research for large or important purchases.

Fortunately, researching online vendors is easier than ever. Information can be found at the vendor's Web site, from evaluations by consumer advocacy groups, and even from reviews provided by other consumers. All of these sources are veritable treasure troves of vendor information for savvy online shoppers. In this feature, we'll tell you how to navigate these sites and get the lowdown on online merchants.

ILLUSTRATION BY LAEL HENDERSON

BUYING ONLINE

Seal the Deal

Savvy shoppers follow these signs to the safest buys online.

BBBOnLine Reliability Seal
Lets shoppers quickly check background information on a participating firm and verify that the company has a satisfactory record with the Better Business Bureau. Companies qualifying for the seal must provide the BBB with information regarding ownership and management, have been in business for at least one year, qualify for membership in the BBB, and agree to an onsite visit by a representative of the BBB.

BBBOnLine Privacy Seal
Assures consumers that the site meets BBBOnLine standards for choice, individual access to data, transfer of information to third parties, data integrity, security, and parental notice and consent. The vendor cannot have an unsatisfactory record with the BBB and must agree to participate in the BBBOnLine Privacy Policy Dispute Resolution Program and to abide by its decisions.

BBBOnLine Children's Privacy Seal
Verifies that the site meets all of the requirements of the Privacy Seal, in addition to child-oriented protections. For example, the sites must obtain verifiable parental consent before collecting, using, or disclosing children's information; permitting children to post or distribute information; or letting children directly communicate with others.

BizRate Customer-Certified
Indicates that the company has agreed to allow BizRate.com to survey every customer who makes a purchase on the company's Web site. Consumers can click on the seal to see the aggregated results of customer surveys.

CPA WebTrust
A specially licensed certified public accountant examines a company's Web site to ensure that its Web transactions comply with the program's standards for information protection, business practices, and transaction integrity.

TRUSTe Privacy Seal
Designates that the site abides by TRUSTe's core principles of disclosure, choice, access, and security. By joining the TRUSTe program, all licensees adhere to TRUSTe's ongoing monitoring and alternative dispute-resolution process. ▼

SIZING UP THE SITE

The first step in the research process begins at the vendor's site. Reputable online vendors understand that their Web sites are far more than virtual storefronts. In addition to taking orders, a site should provide the consumer with information about the firm's shipping and return policies, security measures, and privacy guidelines. Here's a checklist of what you should look for at a seller's site.

1 Get more than one address. E-mail is great, but make sure you know the physical location of any online business. Should it become necessary to hold the vendor accountable, this information will be crucial. Also, make sure the company lists a working phone number, preferably one that's toll-free. Although vendors understandably prefer to work through e-mail and their Web sites, if you are giving a company money, you should at least be able to reach it on the phone.

"Be wary if the Web site doesn't list an actual address and phone number to contact the company, or only supplies an e-mail address," says Rob Smith Jr., executive director of Shop.org, a trade organization for online retailers.

If this information isn't clearly available, however, don't give up. Steve Salter, reliability project director for BBBOnLine *(www.bbbonline.com)*, the online arm of the Better Business Bureau (BBB), recommends that you verify the location of the owner of a Web site using a Web address-lookup service like Whois.Net *(www.whois.net)*. By entering a company's domain name, like "etoys," you can view the "whois record," which shows the name and location of the owner of the domain name.

"Use this address to check with the BBB in the company's area on the company's history," says Salter. A list of all local BBBs, plus many BBB reports on companies, can be found at the BBBOnLine Web site.

2 Hold a fire drill. Always test a company's customer service before you spend any money. Try calling the company's tech-support and customer-service numbers to see if you can talk to a live technician. And don't forget to test the Web site itself.

"Submit a question to customer service via e-mail and see how long it takes the site to respond," suggests BuyItOnline's Clebnik. "Then carefully read their answers to your questions."

3 Survey the site. Before you do business with any online merchant, take some time to evaluate its Web site, and decide if you're comfortable with its navigation and functionality. A well-designed Web site is the sign of a well-run company.

"Consumers may want to consider load times and the ease of finding available products," says Niha Babu, an intelligence analyst with Resource E-Commerce Watch, a research firm specializing in online commerce. "Understanding the site structure and search function is a key to online shopping. Relevant search results and an intuitive search function are a must."

4 Check the ETA. Any Web site you patronize should have a well-defined and easily located shipping and fulfillment policy. The popularity of online shopping has crippled some small firms—and even some large ones. Last Valentine's Day, for example, 1-800-flowers.com was so inundated with orders that some customers didn't get their deliveries until days after the holiday.

"Fulfillment issues have been in the news recently," says Shop.org's Smith. "Customers will order an item, only to find out later that it's out of stock or will be delivered after the date they need the gift." That's why Smith recommends giving yourself plenty of time to order a gift, particularly during busy holiday periods, and making sure you find out from the retailer when it will be delivered.

5 Copy everything. BBBOnLine's Salter advises consumers to make copies of all important vendor policies, including information on return policies, warranties and guarantees offered, privacy and use of personal information, and shipping and ordering procedures. In a medium as fluid as the Web, policies can change fast, and you need to have your own backups. "Either electronically save or print out copies of these policies whenever you order something," advises Salter. Either approach is effective, but creating a separate folder on your hard drive for this kind of paperwork will save a lot of trees.

BUYING ONLINE

6 The return route. Make sure the company's return policy is clearly stated, and proceed with caution if it isn't. When in doubt, call ahead and have the company send you a copy of the policy in writing. Do not merely take the word of a service representative on the phone.

Returns may not always involve shipping products back through the mail. "Many online shopping sites run by retailers with physical stores provide consumers the option of returning the product to the store," Smith notes.

7 Protect your privacy. How a vendor treats your private information should be considered before you make any online purchase decisions. Every online merchant should have a privacy policy that can be easily accessed by its customers. The use of e-mail addresses and other information varies from site to site, so read this policy carefully before you provide any personal information. It will tell you if the vendor plans to sell your individual e-mail information to other companies.

In many cases, companies use personal information in aggregate, combining your individual information and shopping habits into a large pool of consumers, without providing any identifiable characteristics. While this is acceptable to most users, check the fine print to make sure your name, phone number, street address, and e-mail remain private.

There are a few things that you should *never* provide online. "No reputable site should ever ask you for your social security number or bank account number," says Shop.org's Smith. "If they do, they're probably not reputable, and if you provide this information, you might soon become the victim of fraud."

8 Get it on credit. The rate of overall Internet fraud is relatively high, but that isn't something educated shoppers need to worry about. Just be sure to do business with vendors that accept credit cards and offer a secure environment.

Consumers lost more than $3.2 million to Internet fraud last year in incident reports to the National Consumers League's Internet Fraud Watch ***(www.fraud.com)***—a 38 percent increase from 1998. Individual losses were rather significant as well: of those who lost money, the average was $580 for computer equipment or software, $465 for general merchandise, and $293 in online auctions.

Most of these purchases were made with checks and money orders, which meant that those consumers lost out on the rights they would have had if they had used a credit card. When you pay by credit card, your transaction is protected through the Fair Credit Billing Act. "Credit cards are protected against loss or theft with a maximum exposure of $50 for the cardholder," explains Salter, "and even the $50 fee is rarely charged." Only 3 percent of fraud claims in 1999 involved transactions paid for by credit card.

9 Safe and secure. It's highly unusual for credit-card numbers to be hijacked while an online order is being placed, but it's virtually unheard of when ordering in a secure environment. Merchants will usually inform you if they are using security software. "Look for pop-up messages on your screen that tell you when you enter a secure environment, and confirm it by noting that the Web address at the top of the page begins with 'https,' not just the usual 'http,'" says Salter. You can also look for the closed-padlock symbol at the top (in Internet Explorer) or bottom (in Netscape Navigator) of your browser.

Secure Sockets Layer (SSL) technology, which provides data encryption and server authentication, is used by many Web sites and is considered one of the best-known secure-server technologies. Shop.org's Smith assures shoppers that SSL is completely secure. "There have been no reports of credit-card numbers being stolen during a secure SSL transaction," he adds.

Several consumer organizations specialize in evaluating Web vendors' security. TRUSTe.com ***(www.truste.com)***, for example, has stringent guidelines for its seal of approval, including the use of SSL and secure storage of credit-card numbers. "TRUSTe is a good qualifier, and you want to make sure your credit-card information is not being transmitted via e-mail, which is not secure," says Clebnik of BuyItOnline.

LISTEN TO THE WATCHDOGS

You can learn a lot from a vendor's Web site, but your homework does not end there. You can also look to any number of watchdog organizations. Organizations like TRUSTe, the Better Business Bureau, and BizRate.com keep tabs on Web vendors and make a great deal of information available to consumers online.

Rather than search each of these third-party evaluators manually, however, many of these organizations have created seals, or trustmarks, that individual vendors can put on their sites. To display the seal, a site must meet certain criteria. Although seals vary in their requirements, they can be useful tools for gauging sites' reliability.

Just looking for the seal isn't always enough, however. Vendors will occasionally display a seal without authorization. "Always click on those seals to ensure that they are valid, and learn what the seals mean," says Salter of BBBOnLine.

Shopping portals can also serve as watchdog groups, by prescreening the merchants they host. Although not pure consumer advocates, well-known shopping portals, such as ***computershopper.com*** (the portal site associated with this magazine), Lycos Shop ***(shop.lycos.com)***, and YahooShopping ***(shopping.yahoo.com)***, prescreen vendors to protect their own reputations. Lycos Shop, for example, requires vendors to fill out a detailed contract before they are allowed into the company's online mall. So far, more than 2,500 merchants have signed the contract.

The Better Business Bureau lets you check a vendor's record before you buy, as well as register complaints post-purchase.

"We try to look into the mind of consumers and try to replicate what they do in the offline world," says Jeff Blue, director of e-commerce marketing at Lycos Shop. "It's more than just the transaction. It's really about research—reading reviews, talking to your friends, and then finding the right store with the right price."

Shopping through a portal also gives consumers another source for customer support. Although the individual vendor must resolve many issues, Lycos Shop has a staff of service representatives to help shoppers use the site. Blue says most of the questions are related to navigation and location issues, but over the holidays the company also had to address some delivery problems.

"Even though we are just an aggregator, we felt it was important to have a point of contact for the consumer," he explains,

BUYING ONLINE

adding that Lycos Shop has occasionally given gift certificates to consumers who have had bad experiences to try to preserve the relationship.

GIVE 'EM THE BIZRATE

For a more comprehensive evaluation of online vendors, shoppers would do well to check out BizRate.com, a Web site dedicated to rating e-businesses. The company has customers fill out a survey after they shop and makes the data available online.

"The whole system is based on the idea that consumers can help each other by rating businesses online after going through the fulfillment and delivery process," explains Gene Cameron, BizRate.com's VP of marketing.

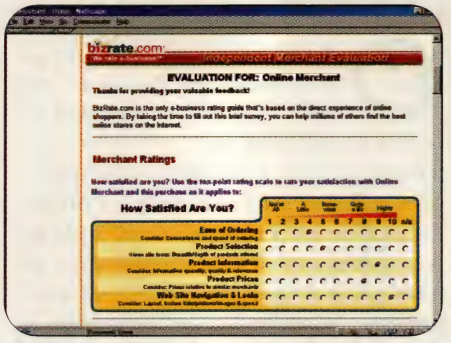
The survey itself is often shown to the consumer just after they have made a purchase and takes under 10 minutes to complete. (A shorter version is presented to second-time shoppers.) Although consumers are given no incentive for filling out the survey, BizRate.com has surveyed about 2.5 million consumers and has collected evaluations of more than 60 percent of the e-commerce merchants currently online. For vendors that choose not to display a BizRate.com survey on their site—including some major names such as Amazon.com—BizRate.com gets a panel of volunteers to evaluate the site.

"We make all that information available on the Web site," says Cameron. "It's a multidimensional thing, and it isn't just lowest price or fulfillment. It includes everything from ease of navigating the site to product presentation."

Upon entering BizRate.com's site, you're greeted by what looks like a typical shopping portal, with a brief listing of popular product picks and 14 product and service categories, such as Consumer Electronics, Entertainment, and Travel Reservations. Clicking on one of these categories brings up a larger listing that lets you drill down to a specific product category. Here, you can search for a particular brand or product model, or view an online vendor's evaluation by clicking on its star rating. Although you can't see individual survey results, BizRate.com does provide a fairly comprehensive profile that includes a performance review, contact information, and the return policy for each merchant.

Cameron claims BizRate.com's large sample sizes, standardized scoring process, and widespread merchant support give a more accurate description of a vendor's qualifications than other surveys or anecdotal review services. "It's fun to read verbatims, but it is not necessarily representative or helpful," he says. "You have the one time somebody screwed up or the one time somebody did great."

BizRate.com does not charge consumers to view vendors' evaluations; its revenue comes from selling the research to vendors (though no information about individuals is ever sold). "We create value for the merchant and give them a report back," explains Cameron. "The idea is for them to use that feedback to improve their sites."



BizRate uses detailed surveys, such as the sample shown above, to collect customer feedback on all aspects of a merchant's operations.

BizRate.com also lets consumers customize their shopping profile so they can compare vendors according to the criteria that are most important to them. Whether you're interested in prices, service, or guaranteed delivery, the site will produce a customized list of the best companies in that category. "We had some people who came into our site, searched by the delivery guarantee and found flower shops that could deliver on Valentine's Day," Cameron states. "That's the kind of flexibility we're talking about."

THE PEOPLE SPEAK

Although BizRate.com dominates the market in structured consumer feedback, different anecdotal consumer opinions are easy to find online. At sites such as Epinions *(www.epinions.com)* and Deja.com, you can pore over detailed evaluations of products and companies. And ShopServe.com, a site dedicated to reviewing e-commerce sites, hosts a message board for consumers to vent about their best, or worst, online shopping experience.

Plenty of opinions can be found in newsgroups. Some vendors even keep their discussion areas open to consumer complaints.

You can also find the unfiltered opinions of fellow shoppers at some shopping portals, such as Productopia and Lycos Shop. "We have a co-branded area with Epinions within our retail environment," says Jeff Blue. "They provide our consumer reviews and give users a place to express their feelings."

Blue says that offering consumer opinions online makes shoppers feel more comfortable with the buying process. "We've found that anywhere a consumer could see a star rating system or read a consumer review, they really gravitated toward those products."

Babu of the Resource E-Commerce Watch agrees that consumer opinion will soon dominate e-business. "As the Internet provides customer-centric commerce, e-retailers should consider the impact of consumer product reviews on purchasing decisions," says Babu, adding that wherever these evaluations are found, they can have a significant impact on an online vendor's reputation and sales.

Still, unfiltered, anecdotal testimonials are only so useful. They rely on the credibility of the person who posted it, which is unknown. "Remember, people can often remain anonymous on the Web, and sometimes have their own agendas regarding a particular company," Shop.org's Smith says. "It's best to ask friends, co-workers and family—people you know and trust."

BuyItOnline's Clebnik also advises caution when collecting consumer opinions. "You don't know who is really posting to the groups," he warns. "It could even be the vendor himself. You always have to try to divine the agenda of the person doing the posting."

Clebnik suggests the consumer is already in total control of the electronic buying process. He believes consumers should use the same tactics as they would when buying a new car or looking for a mechanic. "Word of mouth, even in the Internet economy, is the most legitimate screening method available," he says. "And every retailer—whether online or operating a corner store—knows that nothing trumps an informed shopper." ▼

SECTION CONTINUES ON PAGE 198

ACTIVE LINKS

shop.lycos.com	Shopping portal that prescreens all vendors it hosts
www.bbb.org	Online home for the Better Business Bureau
www.bizrate.com	Provides product information and vendor ratings
www.deja.com	Offers in-depth discussion area and consumer reviews
www.epinions.com	Advice site with plenty of consumer feedback
www.productopia.com	Shopping portal with open discussion area
www.shopserve.com	Provides information on e-commerce sites
www.truste.com	Site dedicated to online privacy issues
www.whois.net	Locate the name and street address of an online merchant

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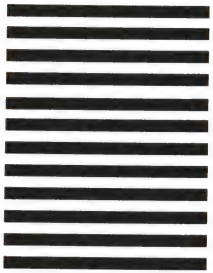

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WEB PHOTO SERVICES

Picture It ON THE Web

INTERNET PHOTO SERVICES HELP YOU ORGANIZE, SHARE, AND TOUCH UP YOUR IMAGES.

by Rich Castagna

A picture's worth a thousand words—if you can find the picture. Is it stuffed into one of a half-dozen misplaced shoeboxes or crammed into the junk drawer along with rolls of undeveloped film? Have you reduced a lifetime of Kodak moments to closet clutter? Don't let Grandma be the last on her block to have her darlings' pictures emblazoned on her mouse pad. Check out the spate of Web-based photo services, return order to your images, and have a little fun in the process.

Online photo services guide you through the process of organizing your pictures into digital albums you can share on the Web with friends and family. Many also offer such features as film development, easy print and enlargement ordering, e-mail links, tools to enhance photos, and an array of gift items you can personalize with your photographic masterpieces.

We tried a handful of photo sites, ranging from those that focus on reprint and enlargement services to those that inject some fun into the drudgery of keeping track of pictures. Some fees are involved—mostly for ordering prints—but all the sites offer free access to at least some features. Depending on what you need, you may be able to enjoy the benefits of some of these services without spending a dime.

The online photo sites we checked out were Club Photo *(www.clubphoto.com)*, Kodak PhotoNet *(www.photonet.com)*, the Konica OnLine Photo Center *(www.konicaonline.com)*, Ofoto *(www.ofoto.com)*, PhotoIsland *(www.photoisland.com)*, PhotoLoft *(www.photoloft.com)*, PhotoWorks *(www.photoworks.com)*, and Shutterfly.com.

PAPERLESS PICTURES

These services post your photos online, whether they're digital images you upload or film you send in for developing. Here's how they work.

Scan. If you have the fortitude to sort through the shoeboxes, you can scan your pics into your PC. Unless you want to make this your life's work, select a handful of favorites. Just remember that scan quality matters: If you upload poor-quality scans, your online images and reprints won't look any better. Fortunately, scanner prices are low, and you can get a decent-quality unit for about $200.

Download. If you're content to leave the past in the closet, consider buying a digital camera. You can snap up a 3.3-megapixel model for under $1,000. Depending on the camera, downloading digital images can be as easy as connecting a cable, popping digital "film" into a card reader, or inserting a plain old floppy into a disk drive.

Develop. If you just won't part with your film camera, some sites will develop and digitize your images, and may even return negatives and a set of prints.

MEMORY MANAGEMENT

Uploading your images can be a chore, but once you've done so, you'll have an easy way of storing, sorting, and organizing them

ILLUSTRATION BY WILLIAM RIESER

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WEB PHOTO SERVICES

into logical collections, be they last summer's vacation, little Todd's birthday party, or Halloween. You can personalize these digital photo albums with titles, descriptions, and in some cases, different background colors and patterns. With your albums in place, you can share your photos with Internet-connected friends and relatives by e-mailing invitations to view your images, sending specific shots, or posting pictures to a gallery for public viewing. Your photos are stored securely, and viewers need a valid ID and password to gain access to them. Those you invite to view your pictures can't alter or delete them from your albums.

Why is this better than posting pictures on your own Web site? For a number of reasons: Even if you use a Web-authoring program that spares you the drudgery of HTML, it's still easier to let a photo site take care of all that for you. And it's easier to update an album than rejigger a Web page.

You also get touch-up and enhancement tools for basic photo-editing tasks such as red-eye reduction, cropping, rotation, and brightness adjustment. The tools offer only a fraction of the features you'd find in a photo-editing program such as Adobe Photoshop, but you won't have to dedicate the next year of your life to learning how to use them. Just follow the onscreen instructions, and in minutes crimson corneas disappear, last year's beau is literally out of the picture, Uncle Harry is no longer standing on his head, and the Eiffel Tower emerges from the gloom of a botched exposure.

WHY DIGITAL IS BETTER

At this point you may be wondering why you'd want to make prints or enlargements from digital images that, even at high resolutions, can't match the sharpness and clarity of prints from negatives. Well, if you're like most people, you don't even have the negatives. Even if you do, finding the one you need is about as easy as pulling the family station wagon around the block with your teeth. Ever notice how all negatives look alike when you hold them up to the light? And you may not even be the one who wants the print. Anyone you invite to view your pictures on these sites can order prints or enlargements. So Aunt Martha in Maine can get all the prints she wants, and you can skip the trip to the photo-processing counter.

If you use a digital camera, you can print the images yourself, but unless you have a photo-quality printer and use expensive glossy paper, you'll be disappointed. You can't match the quality you get from an online photo service because these services use professional printers and special photo paper. Ofoto, for instance, uses the Kodak Professional LED II digital printer, which costs more than $100,000 and uses silver halide paper similar to that used in traditional photo processing.

They have to be good, since these sites earn their revenue by selling reprints and enlargements. Uploading, organizing, sharing, and retouching are usually free. The sites also make money by selling a raft of items sporting reproductions of your images. They can reproduce your favorite photos on just about anything: mugs, mouse pads, tote bags, clocks, key chains, T-shirts, sweatshirts, stuffed toys, refrigerator magnets, puzzles, coasters, jewelry, and so on. One service will even duplicate your photos on chocolates and cookies.

No-Frills Photo Sharing

Online photo sites offer a lot of features, but wading through them each time you want to update or rearrange your images can be a chore. If storage, organization, and sharing are all you need, try a simpler solution.

Yahoo Briefcase offers free photo storage without all the accoutrements. Within the allotted 10MB, you can create separate albums just as you would data folders. You can view your images full size or as thumbnails. Briefcase even lets you e-mail your images to the individuals on your list or let them view complete albums on the Web. It's a rudimentary solution compared to the full-featured photo-sharing sites, but sometimes simple is all you need.

Photo Site Finder

Use this table to find the Web photo service that's right for you.

If you want to...	Try these sites
Process and digitize a roll of film	Kodak PhotoNet, Konica OnLine Photo Center, Ofoto, PhotoWorks
E-mail postcards of your images	Club Photo, Kodak PhotoNet, PhotoIsland
Store an unlimited number of images	Club Photo, Ofoto, PhotoWorks
Upload multiple pictures at once	Club Photo, Ofoto, PhotoIsland, PhotoLoft, PhotoWorks, Shutterfly.com
Retouch or enhance photos online	Club Photo, Kodak PhotoNet (limited to warping effect), PhotoIsland
View photos on your color Palm IIIc	Club Photo
Transfer images to another Web site	PhotoLoft

WHAT TO FOCUS ON

Beyond edible images, the services have a number of other differentiators. Here are some key points to consider when choosing a service to which to entrust your memories.

Uploading. All the sites that allow uploading handle it the same way. The upload screen has a field in which you type the name of the file you want to upload. A Browse button lets you hunt through an Explorer-like window to find the file. Select the file, click Upload, and, after a minute or so, your picture appears.

Repeat the process for each picture you want to add to your album. If the stack is high, this can be a long, monotonous process. PhotoIsland makes it easier by installing an applet on your PC that lets you drag multiple files from Windows Explorer and drop them onto a target screen for batch uploading. Ofoto lets you pick several image files using its Browse but-

WEB PHOTO SERVICES

ton, then uploads all of them at once.

Some services require you to download an uploader. Club Photo's Living Album, Ofoto's OfotoNow, PhotoWorks' PictureWorks Uploader, PhotoLoft's Upload Client, and a modest plug-in from Shutterfly.com all help automate the uploading process.

PhotoLoft adds an interesting twist by letting you add photos by e-mail. Click E-Mail Upload on PhotoLoft's upload page to launch your e-mail program. Then add pictures to the message as attachments and send them to your personal Loft (PhotoLoft's name for album).

Storage Space. Another point of comparison is how much space a site allots you. Image files can be large. Even if you stick to the compressed JPEG format, a closet's worth of photos can take some big bytes out of a service's disk space. Some photo sites, such as Club Photo, Ofoto, and PhotoWorks, give you unlimited space. One would guess they're not expecting you to tackle the entire contents of the closet. Other sites set limits: PhotoLoft and Shutterfly.com offer a generous 50MB; PhotoIsland allows 10MB but lets you buy 100MB for about $30 per year.

Customizing Albums. Once you upload your photos, you might want to personalize your album. Most sites let you add album titles and photo captions, and write longer text descriptions for each shot. Some let you change elements such as background colors, and other sites give you even more latitude. PhotoIsland, for instance, offers a selection of album styles for special occasions such as weddings, graduations, new babies, and honeymoons. Club Photo lets you spiff up a drab album by changing background and text colors, adjusting font styles and sizes, and specifying the number of pictures to display across each page.

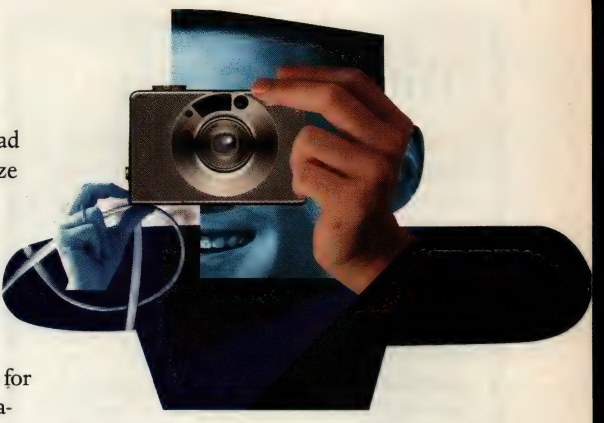
Enhancing Photos. Unless you're Ansel Adams, or one of his protégés, your photos may need a little retouching. Some sites let you tweak your images right at the Web site, and others let you download free photo-editing software. The tools are basic but effective.

One of the handiest features is a brightness adjustment. Club Photo offers a neat and easy way to make this adjustment as soon as you upload an image. PhotoIsland adds five contrast settings.

Rotation tools are the most common. They let you reorient photos you scanned upside down, or give a 90-degree spin to those tall pictures you took by turning the camera on end. A couple of the sites, PhotoIsland and PhotoLoft, even offer cropping tools for relegating extraneous objects—or people—to the digital dustbin.

When it comes to jazzing up your images with exotic treatments, PhotoIsland takes first prize for its iPhotoEffects feature. You can turn an ordinary image into an artistic marvel by applying special effects such as embossing, film grain, melting, neon, painting, pinch, ripple, sharpen, and sketch. Sketch is particularly cool—it gives your photo the appearance of a black-and-white line drawing. All these special effects are available at the Web site, so you don't have to download any software.

Many sites also offer a warping tool that lets you distort images. Just click on an area of the picture and stretch it like Silly Putty.



We don't know what this says about our society, but the warping feature was the only retouching tool some sites offered. Maybe that's because warping faces is flat-out fun.

If warping, cropping, lightening, and brightening aren't enough to improve your images, off with your head! That's right—PhotoIsland's iPhotoFantasy application lets you trim the face from any picture and stick it on another body, even an animal's. Choose from more than 100 bodies—cute, cuddly, or clever. (If you want to build bulging biceps without breaking a sweat, check out the Hunks template.)

E-Mailing Photos. One of the key advantages of having your photographs online is the ability to share them with others. In addition to providing a simple way to e-mail invitations to view your albums, most sites let you e-mail individual or small groups of pictures. You e-mail directly from the site, without invoking your regular communications program. To spare you the hassle of having to fire up your e-mail program just to find an address, many sites let you maintain a small address book along with your pictures. Like your albums, these online address books are secure and only available when you've signed on with the proper name and password.

When you e-mail a picture, few sites actually send the image; most include a live link to your picture at the site. This is good and bad. It's good because you don't end up sending e-mail messages laden with huge attachments; it's bad because recipients who read mail offline won't have immediate access to your photograph. Still, it's a lot more polite to send a tiny message with a link than to make someone suffer through an interminable download. If the images are small, though, receiving them along with the message is a welcome convenience. Konica's OnLine Photo Center and Kodak's PhotoNet attach the image and embed it in the body of the message, if the recipient's e-mail client

Roll With It

Despite the proliferation of digital cameras and falling scanner prices, most shutterbugs still have their pictures processed the old-fashioned way. Many photo sites are happy to accommodate them. Sites such as Kodak PhotoNet, Konica OnLine Photo Center, Ofoto, and PhotoWorks specialize in film processing. In addition to sending you negatives and a set of prints, the sites post your images online.

Although the sites are used primarily for ordering reprints and enlargements, all four services also let you e-mail viewing invitations as well as photos. The sites limit storage to the number of pictures on the rolls of film you've processed, with the exception of Ofoto, which lets you upload to an unlimited storage area. For an additional charge, PhotoWorks ships you a CD containing your photos.

The services offer exceptional print quality, but prices vary. Do some comparison shopping, and keep an eye out for special deals and promotions.

WEB PHOTO SERVICES

Totally Digital

Getting decent prints from a digital camera isn't easy. Sure, photo-quality printers are reasonably inexpensive, but the glossy paper you need to get a quality print isn't, and you rarely get a perfect print on your first try. If you want to spare yourself the hassle, flit on over to Shutterfly.com, which specializes in printing digital images.

With no retouching or photo-enhancement tools, Shutterfly's online service is spartan. You can e-mail photos and invite others to view them, but the point here is prints. Just upload your digital images to the site, organize them, then place your order. Prices are attractive—a 5x7 costs less here than at most other sites—and Shutterfly offers a free plug-in that lets you upload multiple photos at once. You also get online access to your account status.

Shutterfly.com
Introducing 35mm quality prints ... from your digital camera!
Free Prints and Free Shipping!
Upload your digital photos to Shutterfly.com.
Choose your favorites, add personal messages, and we'll make your prints.
We send them directly to you, and
Sending Prints Just Got A Whole Lot Easier!
Add your own messages to the back of prints.
Send photos to your friends & family in a few clicks.
Prices start at 49¢ per print.

can handle embedded images. Ofoto and PhotoIsland notify you when recipients have viewed the photos.

Most sites also let you send digital postcards of the photo you select. You can dress up your card with different backgrounds, colors, fun stamps, greetings, and messages. PhotoIsland even lets you add a tune to your postcard, although the music selection is bit limited. (It's hard to imagine a family photo that calls to mind "The Battle Hymn of the Republic.")

If you plan on e-mailing photos or album-viewing invitations on a regular basis, we suggest you test the process on yourself first. This way, you can see firsthand what you're putting your recipients through. Ofoto, for instance, makes recipients go through the full registration process before they can view pictures.

Prints and Enlargements. When ordering prints and enlargements, keep in mind the quality of the prints is directly related to the quality of your images. If you use a digital camera or scanned photos, the pictures won't be as sharp as prints from film. So if quality is a priority, stick to your film camera and use the services that specialize in developing and digitizing film, such as Ofoto, Kodak PhotoNet, Konica OnLine Photo Center, and PhotoWorks.

Print prices are roughly equivalent to what you'd pay at the drugstore. A 4x6 will cost 45 to 75 cents; an 8x10, anywhere from $2 to $9. If you want to make sure a loved one never forgets you, think big: Most sites offer poster-size prints as large as 24x36. PhotoLoft will even put them on canvas for that truly artsy look.

The neat thing about ordering prints is you can do it from anywhere and have them sent anywhere. Shipping and handling costs are generally reasonable, from about $2 for a typical order delivered by first-class mail. If that's not fast enough, most sites offer second-day or overnight delivery for a premium.

Special Features. A handful of sites offer specialty features as well. Club Photo's Album to Go software lets you download album pictures to your Palm device, a handy tool for entertaining your seatmate on a long flight. If you have your own Web site, PhotoLoft creates the HTML you'll need to drop images from your album onto your site, and cut and paste for use at an auction site.

POINT AND CLICK

Camera makers love to say their cameras are so easy to use—all you do is point and click. Now, organizing, sharing, and even improving your pictures is literally that easy. So recharge your Mavica or break out your old Brownie and start shooting. Then shop around for an online photo site that suits you. Keep an eye out for introductory offers. During our research, a bunch of sites were offering special promotions. Shutterfly.com was offering free prints, and PhotoWorks, free film processing. These promotions and the sites that offer them change frequently, so spend some time shopping before you select a spot for your shots. ▼

< FEATURE COMPARISON >

Web Photo Service	Cost	How Pictures Get In	Storage Space	Photo Sharing	Print and Enlargement Prices	Editing and Other Tools	Other Features
Club Photo (www.clubphoto.com)	Free	Upload	Unlimited	E-mail viewing invitations, photos, and postcards	3x5: 45 cents 5x7: $1.49 4x6: 45 cents 8x10: $4.49	Rotate, brighten/darken, images downloadable to Palm	Photo gift items, free software for uploading to Photoshop and downloading to Palm
Kodak PhotoNet Online (www.photonet.com)	Free with film processing, $5.99 to upload 36 images	Process film or upload	One roll's worth at a time	E-mail viewing invitations, photos, and postcards	4x6: 75 cents 5x7: $3.69 8x10: $8.95	Change name of roll, delete/add spaces, keep online longer, warp photos	Photo gift items
Konica OnLine Photo Center (www.konicaonline.com)	Free with film processing	Process film	Photos stay online for 20 days	E-mail viewing invitations and photos	3x5: 49 cents 4x6: 59 cents 5x7: $2.99 8x10: $6.59	None	Photo gift items, American Greetings Add-a-Photo Cards
Ofoto (www.ofoto.com)	Free	Process film or upload	Unlimited	E-mail viewing invitations and photos	4x6: 49 cents 5x7: 99 cents 8x10: $2.99	Downloadable software for cropping, rotating, and removing red eye	First 100 prints free, digital camera reviews, e-mail address book
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PhotoWorks (www.photoworks.com)	Free with film processing	Process film or upload	Unlimited with twice-a-year film processing	E-mail viewing invitations and photos	3x5: 25 cents 4x6: 25 cents 5x7: $1.95 8x10: $1.95	Print thumbnails	Photo cards, photo gift items, photos on CD
Shutterfly.com	Free	Upload	50MB	E-mail viewing invitations	4x6: 49 cents 5x7: 99 cents 8x10: $2.99	None	Multiple uploads, online account information

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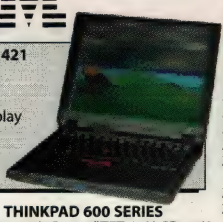

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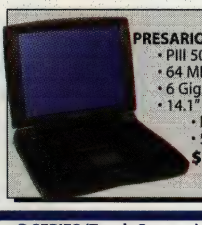

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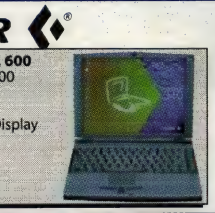

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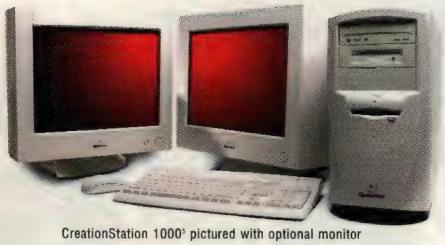

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[1]Prices, specifications, and availability may change without notice. Taxes and shipping charges extra, and vary. Cannot be combined with other offers or discounts. U.S. only. [2]For a copy of Guarantees or Limited Warranties, write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, Texas 78682. [4]At-Home or on-site service provided via third-party contract with customer. Availability varies. Technician will be dispatched, if necessary, following phone-based troubleshooting. To receive Next-Business-Day service, Dell must notify the service provider before 5pm (customer's time). Other conditions apply. [5]For hard drives, GB means 1 billion bytes; accessible capacity varies with operating environment. [6]Download speeds limited to 53Kbps. Upload speeds are less (about 30Kbps) and vary by modem manufacturer and online conditions. Analog phone line and compatible server required. [10]The processor may be reduced to a lower operating speed when operating on battery power. Intel, the Intel Inside logo, and Pentium are registered trademarks, and Intel SpeedStep and Celeron are trademarks of Intel Corporation. MS, Microsoft, IntelliMouse, and Windows are registered trademarks of Microsoft Corporation.

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Whether you're a harried real estate agent from Tokyo who needs mobility, or a mathematician from Pasadena who requires raw power, have we got the perfect notebook for you. Our award-winning Inspiron™ line of notebooks are carefully designed to offer you a range of innovations and technological benefits. They also come with peace of mind — Standard Next-Business-Day On-site Service[4] offering — part of our award-winning service promise. Dell4me™ is all about helping you get the most out of your PC. A notebook customized to fit your needs, is just one of the ways we're making it happen.

THE COMPLETE DELL™ INSPIRON™ NOTEBOOK FAMILY

DELL™ INSPIRON™ 3800

Very affordable. Very lightweight. Not bad looking, either. It's beautifully designed, and available in Forest Green, Sierra Maroon, Midnight Grey, and Tahoe Blue. You'll find it delivers quite a bit of digital bang for your hard-earned buck.

Design and Affordability

- Intel® Celeron™ Processor at 500MHz
- 14.1" XGA Active Matrix Display
- 32MB SDRAM ■ 4.8GB[5] Ultra ATA Hard Drive
- Modular 24X Max CD-ROM
- 2X AGP 8MB ATI RAGE Mobility™-M1 3D Video
- 3D Positional Sound with Wavetable
- 53WHr Lithium Ion Battery with ExpressCharge™ Technology
- MS® Works Suite 2000
- 1-Yr Limited Warranty[2]
- 1-Yr Next-Business-Day On-site Service[4]

$1649 As low as $45/Mo., for 48 Mos.[17]
E•VALUE CODE: **05812-800516**

DELL™ INSPIRON™ 5000

This member of the award-winning Dell™ Inspiron™ family is a brilliant combination of power, size, and mobility. It includes all the bells, whistles, and drives you need and it's just 1.6" thin.

Performance and Mobility

- Intel® Pentium® III Processor at 500MHz
- 15" Super XGA+ TFT Display
- 32MB SDRAM ■ 6.0GB[5] Ultra ATA Hard Drive
- Modular 32X Max CD-ROM
- 2X AGP 8MB ATI RAGE Mobility™-P 3D Video
- 3D Positional Sound with Wavetable
- 52WHr Lithium Ion Battery
- Internal 56K Capable[6] V.90 Fax Modem
- MS® Works Suite 2000
- 3-Yr Limited Warranty[2]
- 3-Yr Next-Business-Day On-site Service[4]

$2279 As low as $62/Mo., for 48 Mos.[17]
E•VALUE CODE: **05812-800522f**

DELL™ INSPIRON™ 7500

Need a portable desktop with a 15.4" screen and an Intel® Pentium® III processor that delivers speeds up to 700MHz? Rarely do you encounter so much raw power concentrated into such a neat package.

CNET Editor's Choice, January, 2000

Mobile Desktop

- Intel® Pentium® III Processor at 600MHz Featuring Intel® SpeedStep™ Technology[34]
- 15.4" Super XGA TFT Display
- 64MB SDRAM ■ 6.0GB[5] Ultra ATA Hard Drive
- Removable Combo 32X Max CD-ROM and Floppy Drive
- 2X AGP 8MB ATI RAGE Mobility™-P 3D Video
- 3D Positional Sound with Wavetable
- 79WHr Lithium Ion Battery
- Internal 56K Capable[6] V.90 Fax Modem
- MS® Works Suite 2000
- 3-Yr Limited Warranty[2]
- 3-Yr Next-Business-Day On-site Service[4]

$2679 As low as $73/Mo., for 48 Mos.[17]
E•VALUE CODE: **05812-800526f**

DELL4me.com

contact us today | **800.766.3300** | www.dell4me.com | DELL.COM

No one offers your business more selection than the computer store inside your computer.

The widest selection of products. The best brands. At amazing prices. Find all the computer and technology products and services that your business needs at **www.egghead.com**. Register today for your Business Account.

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The Computer Store Inside your Computer.

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WebBuyer

SITE REVIEWS

SITE REVIEWS FOR ONLINE SHOPPING

COMPILED BY KEVIN SAVETZ AND ABIGAIL CRANE

PC SHOPPING SITES

The sites in this listing sell products from multiple manufacturers. See *Computer Shopper*'s Source Directory ***(cgi.zdnet.com/slink?8145)*** for more information on PC manufacturers offering only their own brands (such as Dell and Gateway).

PHOTOGRAPH BY JOHN WILKES

aberdeeninc.com

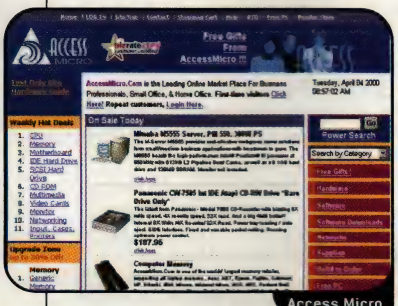
👍 volume pricing • smooth navigation
👎 limited software selection

Built for the savvy consumer who craves technical information, **Aberdeen** offers extensive specs on a wide variety of computers and accessories. The auction area lets consumers name their price for motherboards and other PC upgrades.

accessmicro.com

👍 government and educational discounts • international orders • smooth navigation

With 45,000 items ranging from memory to T1 routers to choose from, shoppers will enjoy the selection at **Access Micro.** The help desk and hardware guide provide aid to first-time visitors.



Access Micro

www.applied-computer.com

👍 smooth navigation

Selling PCs and supplies since 1984, **Applied Computer** promises to match or beat any advertised price.

blackbox.com

👍 smooth navigation

Specializing in cabling and network-connectivity products, **Black Box's** extensive 900-page catalog of storage, LAN, switch, surge-protection, and other accessories can be viewed online or off.

buycomp.com

👍 low-price guarantee • smooth navigation • easy ordering • good return policy

BuyComp is devoted to computer hardware, including systems, PDAs, peripherals, and networking equipment. This elaborate site is one branch of an army of e-commerce sites, including BuySoft (for software), BuyGames, BuyBooks, and BuyVideos.

cdw.com

👍 list of rebates and coupons • smooth navigation • easy ordering

CDW offers an impressive array of hardware and software. The comparison tool lets shoppers create side-by-side comparisons in many product categories.

compuplus.com

👍 good return policy

Comp-U-Plus highlights its customer service, offering a 30-day money-back guarantee and free technical support. Its catalog isn't the biggest, but plenty of name brands are represented, and prices are reasonable.

Comp-U-Plus

computability.com

👍 handy side-by-side product-comparison tool • smooth navigation • easy ordering

Beginning its mail-order business in 1982, **ComputAbility** has aged consid-

10 TIPS for Web Buyers

1. Always buy from a secure Web site when entering your credit-card information. If you're not positive that a site is secure, place your order by phone.

2. Read reviews of products before you decide which one to buy. ZDNet (our parent company) ***(www.zdnet.com)***, for example, offers reviews by PC professionals from myriad computer magazines, and sites like Deja ***(www.deja.com)*** offer other consumers' reviews of everything from computers to car seats.

3. Bookmark several shopping agents, such as NexTag ***(www.nextag.com)*** and mySimon ***(www.mysimon.com),*** and check with each one to find the best price before making a purchase.

4. Take the time to register at shopping sites that you frequent. When you make subsequent purchases, you might be able to use an "express checkout" feature to speed the process.

5. Anticipate that you might need customer service; read the service policy before you buy. You could be surprised at how little, or how much, a seller is willing to give.

6. Know the company's return policy. Some sites charge restocking fees of 15 percent or more under certain circumstances, and some charge these fees even if you haven't opened the box or if the product is defective.

7. Don't forget about shipping charges and tax. A good price can be whittled away by these, even on sites that don't add big handling fees.

8. Many sites offer e-mail newsletters. If you visit a store regularly, it might be wise to subscribe to keep abreast of sales and special deals.

9. When you place an order, write down the order number, customer-service contact information, and URL of the store you bought from. Many Web stores will send a confirmation e-mail, but don't depend on it.

10. Don't forget to shop around locally. You might be able to find the same item right down the street for a great price.

erably better than the Commodore 64 you bought that year. The site offers desktop, notebook, and handheld computers, plus a wide variety of peripherals and software.

computercomputer.com

Interested in buying components and piecing together your own PC? **Computercomputer.com** sells barebones systems that'll make a good starting point.

computers4sure.com

smooth navigation • easy ordering • good return policy

Fifteen diverse departments offer a wide range of products, from networking equipment and peripherals to PDAs and scanners. **Computers4Sure** has top brands and more than 40,000 products, and a running total is always onscreen.

computershopper.com

smooth navigation

Computer Shopper's own computer-buying site, **computershopper.com,** provides access to reviews from all ZD publications, interactive guides on choosing a desktop or a notebook, and How to Buy sections on the most popular product categories.

computersurplusoutlet.com

consignment service

Frugal shoppers and do-it-yourselfers will feel at home at **Computer Surplus Outlet,** a computer hardware liquidator. The company sells closeouts, overstocks, refurbished equipment, and liquidation items at bargain-basement prices. You can find complete, assembly-required Pentium systems for less than $200.

SITE REVIEWS

CHECK IT OUT!

Shop for Secondhand Systems and Electronics

3re.com

smooth navigation • easy ordering • good return policy

Specializing in used computers and rebuilt electronic equipment, **3Re.com** takes open-box returns from original equipment manufacturers, such as Compaq and Packard Bell, and repairs and repackages the machines. Offerings include desktops and notebooks, printers and monitors, network equipment, and software. The selection is spotty. You may find dozens of desktop PCs to choose from, but only three or four monitors. You can search for PCs based on the price, processor, amount of RAM, and other criteria.

Most products come with 30-day warranties, but some are sold "as is." If buying remanufactured equipment worries you, the site offers inexpensive extended warranties that will protect your investment longer. If you have a question, consult the company's around-the-clock technical support by telephone or online chat.

cozone.com

specialty shops offer Apple items • smooth navigation • easy ordering • good return policy

Cozone.com is a well-organized site offering an abundance of PC hardware, accessories, and software, with electronics and video-game gadgets rounding out the selection. Don't overlook the site's clearance section.

cqk.com

Designed for folks who know what they want, **Computer Quick** offers plain-box, best-buy, and closeout merchandise in addition to a selection of more than 90,000 items in regular stock.

www.ctghub.com

hard-to-find tools and test equipment

$30 minimum order requirement

Cables To Go sells every conceivable cable, cord, or wire your PC might need, from standard SCSI to esoteric system-specific cables. You'll also find networking products and all sorts of adapters.

cyberwarehouse.com

smooth navigation • good return policy

may take up to three days to ship

If you're the kind of shopper who can't pass up a bargain-basement sale or an outlet mall, this site may be for you. **CyberWarehouse** offers PCs, monitors, printers, and other peripherals.

dalco.com

overnight shipping • international and APO/FPO orders • good return policy

Dalco stocks everything from motherboards to monitors. Bargain hunters will want to start with this site's specials, which are shown on the home page and change regularly.

www.damark.com

discounts for Damark club members • smooth navigation • good return policy

Damark offers a variety of PCs and notebooks, as well as accessories, digital cameras, and home electronics. Factory-serviced items are available, and the outlet area delivers low prices on items in short supply.

direct411.com

easy ordering

Direct411 offers an impressive selection of 50,000 in-stock hardware and software products. The catalog includes servers, memory upgrades, storage devices, digital cameras, and software.

dirtcheapdrives.com

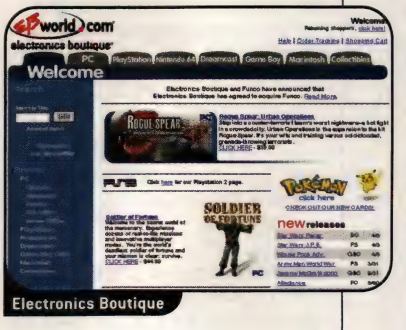
detailed archive of technical-support information • quantity discounts available • smooth navigation

If you can store data on it, this site sells it. **Dirt Cheap Drives** offers deals on hard drives, CD-ROM and DVD hardware, drive arrays, and hard-to-find laptop storage. This 10-year-old company also stocks mounting kits, media, and other accessories.

ebworld.com

can search for age-appropriate games • lists release dates for new game titles • smooth navigation • easy ordering • good return policy

Electronics Boutique is a gamer's paradise. Here you'll find game software and add-ons for your PC and your Mac, as well as titles for Dreamcast, Nintendo 64, and other game consoles. Check out the new releases, best-sellers, and gaming news.



ecost.com

same-day shipment on most orders • photos and warranty details for most products • smooth navigation • easy ordering

The **eCost.com** catalog spans the full realm of PC hardware and software, including ready-to-use systems, peripherals, accessories, software, and games. Featured specials in each category point shoppers to the best deals, and fastidiously organized subcategories help them find the exact products they need.

egghead.com

smooth navigation • easy ordering

Egghead.com shoppers can browse the hardware, software, and electronics

"superstores," or check out the deals on surplus computer merchandise. In addition, the site also sells home electronics, sports and fitness merchandise, and travel packages.

electrified.com

👍 30-day guarantee on all items • se habla español • good return policy

Looking for deep discounts on older laptops, notebooks, monitors, and printers? **Electrified** specializes in products that are discontinued, second-inventory, refurbished, off-lease, or otherwise not state-of-the-art. Systems range from new Pentium II laptops to under-$200 used 486s.

fatbrain.com

👍 new-title notification by e-mail • smooth navigation • easy ordering • good return policy

Fatbrain.com is a bookstore devoted to computer books, documentation, and some of the most technical tomes available. The site's eMatter service lets anyone self-publish books, articles, and research reports, making them available for download for free or for a fee.

firstsource.com

👍 real-time online customer service • smooth navigation • easy ordering

Focused on the technology needs of businesses, **Firstsource** offers a broad range of choices in computer hardware, rack-mount systems, network tools, phone systems, wiring, and business software.

gogocity.com

👍 smooth navigation • easy ordering

You'll get beyond **Gogocity.com's** funny name when you see its excellent selection of computer hardware. You'll find desktop and notebook computers, peripherals, software, and PC accessories of all types. Detailed product information, often with pictures, rounds out the catalog.

www.hardwarestreet.com

👍 1 percent of all profits goes to the National Forest Foundation • smooth navigation

Shoppers in the market for hardware, networking products, and software can choose from more than 40,000 products at **HardwareStreet.com.** Affiliated sites DownloadDrive.com and SoftwareStreet.com offer thousands of software choices.

idot.com

👍 equipment leases available • onsite-service warranty for all systems • easy ordering

Look to **iDot.com** for preconfigured or custom-built PCs. To configure your own system, just select from the impressive list of add-ons and watch the price change accordingly. The Peripherals Outlet offers deals on USB devices, DVD drives, cameras, and other add-ons.

insight.com

👍 separate sites for the U.S., Canada, Germany, and the U.K. • smooth navigation • easy ordering

With more than 100,000 items, **Insight** offers an impressive and easy-to-navigate catalog. More than 90 free newsletters feature new-product news, closeout specials, and tech news.

intellesale.com

👍 "make us an offer" function lets shoppers haggle over the prices of certain products • smooth navigation

most orders are shipped in 7 to 10 days

IntelleSale.com offers a wide variety of new and refurbished computer systems from major manufacturers, plus peripherals, accessories, and software. Many product listings only note model numbers and the most basic specs.

www.jandr.com

👍 3D demos of selected products • smooth navigation

Whether you're shopping for an Aptiva or an iMac, hardware and accessories abound at **J&R Computer World,** making this a one-stop shop for many. You'll also find a huge selection of digital and traditional film cameras.

laptoptravel.com

Extended listing this month. See this page.

mcglen.com

👍 smooth navigation • easy ordering

McGlen Micro's specialized searches can help you find memory and other accessories compatible with your computer, printer, and copier. Shoppers can design a custom system to be built and shipped in two days.

megahaus.com

👍 lifetime technical support on all products • CD-mastering and other utility software • smooth navigation

MegaHaus calls itself "the drive authority." It offers a wide variety of storage solutions, including hard drives, DVD drives, RAID, and removable storage. A technical-information area features FAQs and specifications on hardware ranging from DVD players to drive brackets.

memman.com

👍 all memory carries a lifetime warranty • good return policy

When it's time to upgrade the memory in your desktop or laptop, don't forget **Memory Man.** Besides memory chips, the site sells processors, motherboards, hard drives, heat sinks, and batteries for many types of notebooks.

memory4less.com

👍 company tests all products shipped • smooth navigation

Memory4Less offers low prices on a wide variety of RAM, including older, hard-to-find types. If you don't know the memory requirements of your computer or digital camera, it will tell you. The site also sells CPUs, motherboards, and laptop hard drives.

microx-press.com

👍 smooth navigation • easy ordering

MicroX-Press offers detailed information about most products, as well as a handy "E-mail me when this product is priced at…" feature and a PC configuration tool. Customers are invited to rate and review products they've tried.

motherboards.com

With a wide selection of motherboards from seven manufacturers, do-it-yourselfers can pick the perfect innards for their new PCs at **Motherboards.com.** This Web store offers CPUs, memory, video cards, drives, and other internal essentials.

SITE REVIEWS

CHECK IT OUT!

Portable PC Gear to Go

laptoptravel.com

Laptoptravel.com sells portable computing and international travel gear, including electrical adapters, modem converters and couplers, and security accessories. You'll find traditional and "camouflaged" laptop carrying cases, converters for trips abroad, and even portable solar panels. Whether or not you're planning a trip, you'll appreciate the selection of laptop RAM, hard drives, and storage add-ons. Look for helpful advice in the Traveler's Forum, such as tech notes from fellow travelers and links to other sites of interest to mobile-computer users. Some purchases earn frequent-flyer miles through ClickRewards.

SITE REVIEWS

www.mwave.com

smooth navigation • easy ordering

Multiwave Direct's friendly site sells a multitude of hardware and software products. In addition to PC systems and peripherals, this Web store stocks notebook accessories, videoconferencing equipment, and network tools.

www.mwmicro.com

24-hour technical support • lease options • smooth navigation

MidWest Micro maintains an impressive catalog of PC hardware, accessories, and software. Frugal shoppers will be delighted to find instant rebates on some products. The site's exemplary support center offers a troubleshooting wizard, downloadable manuals, and a searchable archive of technical documents.

www.necx.com

smooth navigation • easy ordering

$25 surcharge for phone orders

NECX offers all manner of hardware, accessories, and software. The Showcases section highlights products in specialty categories, such as PDAs or USB peripherals. The How to Buy guides offer impartial advice on selecting and installing common PC add-ons.

neutronet.com

purchases earn credit points toward your next order • smooth navigation • easy ordering

Neutron Computers carries thousands of computer systems and peripherals from nearly 400 different manufacturers and distributors. The site's handy toolbox offers easy access to best buys, help for first-time buyers, and a massive manufacturer directory.

www.notebooksuperstore.com

devoted exclusively to portable computers

Notebook Superstore sells more than 70 different laptop models from eight manufacturers. It offers technical details about each model, so you can easily zero in on the best portable for your needs. Corporate accounts receive lease options and volume discounts.

123cdc.com

smooth navigation

Computer Discount Center offers a wide variety of PC add-ons, including storage, digital cameras, and displays. Shoppers will find competitive prices and detailed product information.

officedepot.com

free next-day delivery on orders of more than $50 within local trading areas • smooth navigation • easy ordering • good return policy

Office Depot sells everything for the office: files to filing cabinets, briefcases to bookcases. The site's computer category offers a selection of prebuilt machines from major manufacturers. Office Depot provides free downloadable business forms, letter templates, and spreadsheet templates.

www.officemax.com

free next-day delivery on orders of more than $50 • low-price guarantee • smooth navigation • easy ordering • good return policy

A few clicks at **OfficeMax** can transform a bare room into a fully furnished office. You'll find computers, other business machines, office furniture, and even paper and pencils under this virtual roof.

onvia.com

free shipping • smooth navigation • easy ordering • good return policy

Onvia.com offers a rich variety of products, including hardware, software, telephone systems, office furniture, and office products. Shoppers can ask a product specialist questions at the help forum or search previous answer postings.

outpost.com

site can be viewed in 13 languages • free overnight delivery on all items • smooth navigation • easy ordering • good return policy

Outpost.com is a lush home to hardware, accessories, and software. Visit the Game Outpost to get your playtime fix, or bid against other shoppers for hardware in the OutpostAuctions area. Get gift ideas for every person and budget in the Shopping Ideas section.

www.palmgear.com

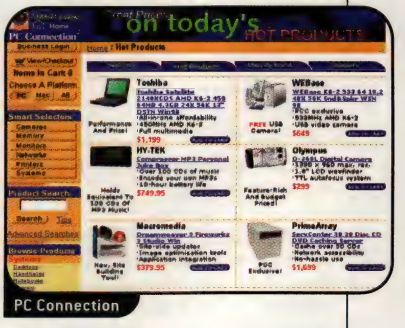
mailing lists offer news, specials, and user tips • smooth navigation

Palm-device users will appreciate the extensive selection of free and commercial downloadable programs at **PalmGear HQ.** The site features lists of the newest Palm programs, as well as essential software picks. Shoppers can buy handheld hardware and accessories, including carrying cases and styli.

pcconnection.com

smooth navigation • easy ordering

In business for more than 15 years, **PC Connection** offers good deals on a colossal variety of products. Smart Selectors ease searching for shoppers looking for systems, cameras, printers, monitors, or memory to fit specific guidelines.



pcmall.com

free lifetime technical support • smooth navigation • easy ordering

Many folks are familiar with **PC Mall's** thick, colorful catalog, and the online version is just as dense. PC Mall has a vast selection of suitable computers, hardware, and software.

pcprogress.com

smooth navigation

If you're in the market for PC components and peripherals, check out **PC Progress.** The site specializes in cost-effective memory, with a lifetime warranty. You'll find a large selection of memory, including notebook, iMac, and printer RAM.

SITE REVIEWS

pcstop.com

same-day shipping

This purveyor of hardware and software offers 50,000 computer-related products from 1,300 manufacturers. **PC Stop's** unusual interface makes shoppers start with a search—you can't just browse.

PCSTOP.COM
Same day shipping* from multiple distribution centers across the United States
Featuring over 50,000 computer-related products
Over 1.5 billion dollars in inventory
Striving to have the lowest prices
Real-time product availability
Save time. Order Online.
PCSTOP.COM
PC Stop

pcwonders.com

corporate and educational accounts available • smooth navigation • easy ordering

PCWonders offers more than 90,000 hardware and software products. Additional categories include car audio, home electronics, PDAs, and bargain blowouts.

www.qualityclick.com

leasing options • easy ordering • good return policy

The **Quality Click** Web store covers all the basics for the PC user, including hardware, networking supplies, accessories, and software. Technical support is available via a toll-free phone number, fax, or e-mail, and sales support via live chat.

shopper.cnet.com

The **CNET Shopper** search engine takes the guesswork out of finding a deal on hardware, software, and accessories. The site tracks the prices of more than 100,000 products in 100 stores.

shoppingplanet.com

Do-it-yourselfers will appreciate **Shopping Planet's** inventory of barebones systems, add-on cards, and kits. An arm of the site specializing in software and hardware for the Linux operating system is available at ***shoppingplanet.com/cm/linux.asp.***

sparco.com

smooth navigation • easy ordering

Sparco's catalog of more than 130,000 products makes it simple to shop for computer equipment. Looking for that something extra? Check out the list of products that come bundled with "free stuff."

www.spidergear.com

deals on refurbished equipment

Spider Gear offers computers, cameras, home audio and video products, car-audio items, and appliances. A $10 optional membership entitles you to reduced prices, an annual rebate, and advance notice of new products.

www.ssdonline.com

the E-list service stores your product preferences • smooth navigation

At **State Street Direct's** Web store, shoppers will discover a huge selection of consumer electronics in addition to computers and imaging products. Digital photographers will find many items of interest.

staples.com

peruse your history of past purchases, even months later • liberal price-matching policy • smooth navigation • good return policy

Even if a **Staples** store is just down the block, you might prefer this elegant Web site when shopping for computer accessories, software, and office supplies. If you order similar items often, you can set up personalized lists to avoid filling out a new form every time.

2for1inkjet.com

free shipping on orders of six or more items, or at least $200 • smooth navigation • good return policy

If your printer is putting you in the poorhouse, pay a visit to **2 For 1 Inkjet,** where you'll find two-for-one supplies for every brand of inkjet and laser printer, copier, and fax machine.

3re.com

Extended listing this month. See p. 210.

tcwo.com

smooth navigation • good return policy

Thompson's Computer Warehouse Outlet Center offers "wholesale computer parts to the public." The selection is small—you may find only a dozen monitors or four CD-ROM drives—but the prices are fantastic. Browse the selection or print out a complete price sheet for easy reference.

techstore.com

smooth navigation • easy ordering

TechStore offers hardware in dozens of categories, ranging from CPU upgrades to storage devices. The site also offers a wide range of software—everything from Microsoft applications to children's titles.

www.thepartsfinder.com

smooth navigation

A friendly site that uses a graphical interface to simplify finding CPU fans, power supplies, cables, and screws, **The Parts Finder** is targeted at computer hobbyists and corporate buyers. Even the most mundane parts, such as bezels, fans, and batteries, are listed.

tigerdirect.com

smooth navigation • easy ordering

TigerDirect's site offers custom-built computers, tested and shipped within 48 hours. Shoppers in the mood for an adventure can order a build-it-yourself custom PC kit.

trudata.com

library of useful free software downloads • smooth navigation

True Data Technology's selection spans desktops, laptops, and palmtops, with an exceptional catalog of motherboards, hard drives, and other upgrade accessories. The site also features communication essentials for businesses, such as DSL equipment and telephony products.

usedcomputer.com

index of nonprofit organizations accepting computer donations

Used Computer Mall is a marketplace for used computer equipment. Shoppers can list hardware to sell or look for items to buy using the free classified ads. The site can also help you appraise equipment.

virtual-world.com

same-day shipping on most items • smooth navigation

You'll find great shopping and free shipping at the **Virtual World** Web store. Extended warranties and onsite service are a part of Virtual World's customer-satisfaction effort.

warehouse.com

smooth navigation • easy ordering

The five "warehouses" under **MicroWarehouse's** roof sell PC hardware and software, Mac products, networking components, and supplies. Check out My.Warehouse.com, which offers auctions, free e-mail, and message boards.

MicroWarehouse

zones.com

printable rebate coupons • smooth navigation • easy ordering

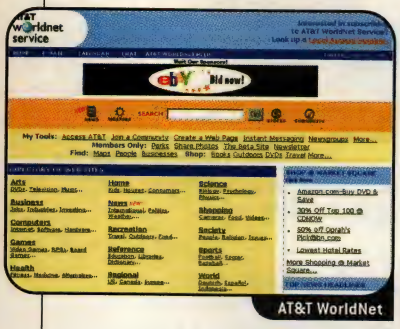
handling fee on smaller orders

An umbrella for three online stores, **PC Zone, Mac Zone,** and **Zones Business Solutions,** this site boasts an impressive product selection ranging from CPUs to books. The auction area gives you an opportunity to name your price for the products you want.

INTERNET SERVICE PROVIDERS

www.att.net

AT&T WorldNet offers 450 local access numbers. The standard pricing plan is $19.95 per month for 150 hours of access. For $2 more, power users can get unlimited access. Families and Websmiths will appreciate the whopping 60MB of Web-page space and six e-mail addresses.



compuserve.com

Owned by America Online, the **CompuServe** service is aimed at professionals and is more powerful than AOL. Access is $9.95 per month for 20 hours, or $19.95 for unlimited access. Customers get seven e-mail addresses and 5MB of Web-page space.

csg.sprint.com/internet

Longtime Internet provider **Earthlink** has teamed up with **Sprint** to create a communications juggernaut. Unlimited access costs $19.95 a month ($2 less if you are a Sprint long-distance customer). The service provides 6MB of Web-page space and an impressive 1,400 local access phone numbers nationwide.

free.msn.com

MSN Internet Access costs $21.95 per month for unlimited access, and the first month is free. You'll also find more than 800 U.S. and international access numbers, but the service is unavailable for Mac users. MSN provides 12MB for Web pages.

www.mciworld.com

MCI WorldCom offers more than 750 local access numbers across the United States. It costs $19.95 for up to 150 hours of access each month ($3 less if you are an MCI long-distance customer). Additional online time is 99 cents an hour.

www.newaol.com

Known for its ease of use, **America Online** is the nation's most popular ISP. It offers many pricing plans, including one for $21.95 per month that gives unlimited access. Extras include members-only forums, 14MB of Web-page space, and seven e-mailboxes.

prodigy.com

It started life in the '80s as an online service; now **Prodigy Internet** is an ISP. Your $19.95 buys unlimited access. Low-usage and deluxe-access plans are also available. Users get 6MB of Web-page space. Accounts come with only one e-mail address, but you can add five additional ones for $2 extra.

PC RESOURCES

cablemodeminfo.com

helps you find a cable-ready ISP in your area

Internet addicts considering upgrading to a cable modem—as well as users who have already made the jump—will find a cornucopia of information at **Cablemodeminfo.com.** You'll find reviews of cable-modem hardware and tips on sharing a modem between PCs.

dcresource.com

message board • links to digital-camera stores

The **Digital Camera Resource Page** is an unbiased, comprehensive source of information for digital-camera buyers and owners. Shoppers will enjoy the FAQ page, buyer's guide, and reviews.

SITE REVIEWS

dealtime.com

site can alert you to new deals that meet your specifications by pager, e-mail, or Desktop Notifier software • smooth navigation

DealTime is an independent comparison-shopping service that helps consumers decide where to buy online. The site aggregates prices from more than 480 Web merchants, auctions, and classified sites.

56k.com

downloads of the latest modem firmware • smooth navigation

Don't buy a new modem until you've visited **56K Modem Central.** Start with the primer on 56Kbps modems, learn the difference between technologies, then use the price shopper to find a model at the best price.

fraud.org

smooth navigation

The **National Fraud Information Center** is preventive medicine for anyone who wants to avoid being bilked. The center offers tips on identifying scholarship scams, bogus travel offers, illegal credit-repair operations, questionable sweepstakes, and other wallet-draining deceptions you may encounter online.

www.ftc.gov

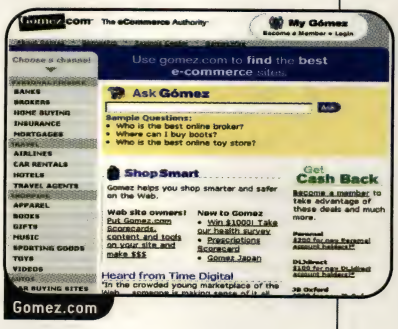
smooth navigation

The **Federal Trade Commission's** Web site is packed with useful information for consumers. The content covers the spectrum of consumer fraud and how to avoid it—online and offline. Articles address online auctions and protecting yourself when shopping on the Net.

gomez.com

smooth navigation

Gomez.com offers ratings and customer reviews of e-commerce sites in two dozen categories, ranging from Web-based computer stores to drugstores, apparel shopping to online brokers. Read other customers' reviews and check their ratings.



help-site.com

links to more than 900 documents • smooth navigation

Help-Site is a great place to find FAQ lists, tutorials, manuals, and official as well as unofficial support. You'll find documentation on DOS, Windows, OS/2, and even Unix and VAX/VMS systems.

microweb.com/pepsite/Recycle/recycle_index.html

When it's time to clear the basement of those ancient 386s and Mac Pluses, don't trash them. **Computer Recycling Programs** lists state, national, and international agencies that facilitate donations of used computer hardware for schools and community groups.

modemhelp.com

smooth navigation

ModemHelp provides technical support for modem users and a hearty list of links to other modem-related sites. You'll find information on upgrading modems,

CHECK IT OUT!

Reams of RAM-Related Information

rammatters.com

Flash 4 plug-in required for maximum effects

This site offers more humor and lively multimedia goofiness than you'll find in 10 other e-commerce sites combined. It's also a trove of information for all things RAM-related. Explore **RAM Matters** to learn how adding memory to your computer will make you more productive, and, so the site claims, better-looking. You'll get help in determining the type of memory your computer requires, and instructions on how to install it. If you're confused, check out the RAM Glossary. While the site doesn't actually sell memory, it will point you to online stores that do.

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PCMall.com

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www.pcmall.com

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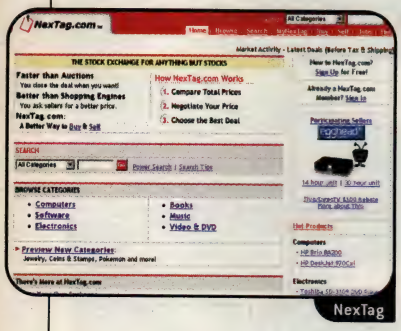
tools for diagnosing problems, and discussion forums. Check out the tutorial section for step-by-step instructions.

nextag.com

product reviews available
• smooth navigation

NexTag is a sophisticated buying service that can help frugal shoppers find the lowest possible prices on computer equipment, electronics, books, music, and videos. Entering your ZIP code allows NexTag to calculate shipping and tax for accurate pricing.



NexTag

productreviewnet.com

smooth navigation

Product ReviewNet collects abstracts of all sorts of products, including computers, appliances, sports equipment, and automobiles. Each abstract includes a citation (for magazine articles) or a link (for online reviews). The site includes a handy best-price search function.

www.thepubliceye.com

access to customer-satisfaction database • smooth navigation

Find Internet businesses that deliver the best service—and avoid the ones that don't—with **ePublicEye.com,** a customer-service rating site. The site uses secret shoppers who patronize Internet businesses, conducting audits and rating the service level of each business.

rammatters.com

Extended listing this month. See p. 214.

scambusters.com

information on viruses—real and fake

Internet ScamBusters is a site and a newsletter aiming to help Net users avoid getting cheated. Each newsletter focuses on a single type of scam, ranging from the merely annoying to the downright dangerous. Scams that target online shoppers are also covered.

www.sig.net/~slogan/hardware.htm

Hardcore Hardware offers a mind-boggling number of links to PC manufacturer and vendor sites. You'll also find Windows tech tips, hardware-book picks, and help on building your own computer. The graphics-card page offers recommendations for video, whether you want your graphics fast, cheap, or pretty.

usb.org

message board fields questions
• smooth navigation

Check this site for technical information about the **Universal Serial Bus,** as well as answers to frequently asked questions and information about devices that use the bus. There's information for end users as well as developers.

windrivers.com

smooth navigation

WinDrivers.com is a comprehensive archive of drivers and DLL files for hard drives, sound cards, scanners, and other hardware. If you don't know what model of motherboard, network adapter, or sound card inhabits your PC, browse the site's photo gallery to identify it.

wirelesslan.com

smooth navigation

The **Wireless LAN Answer Page** provides an introductory tutorial to wireless local networking. It clearly explains what a wireless LAN is and how you can benefit from one. The site offers buying advice but does not recommend specific products.

www.worldowindows.com

hundreds of downloadable hardware drivers • smooth navigation

World O' Windows is a collection of useful news, resources, and tips about current and future versions of Microsoft Windows. Information and user tips abound. The site can be invaluable if you're considering upgrading or if your recent upgrade is causing problems.

SITE REVIEWS

SOFTWARE SITES

accountingshop.com

get credit for your old QuickBooks or Peachtree software when you upgrade • smooth navigation

The **Accounting Shop** Web store focuses entirely on accounting software. Shoppers can choose from an extensive catalog of high-end, mid-range, and small-business packages, including AccuBooks, Business Works, MAS 90, and Peachtree. Easy-to-understand charts let you compare products by type, function, or price.

beyond.com

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• good return policy

Beyond.com is a surefire hit for PC and Mac software shoppers. Zoom in on the most popular software by viewing the top 10 sellers in a category. Beyond also offers extensive specs and customer reviews.

buycheapsoftware.com

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The name says it all: Here you can **Buy Cheap Software.** This site offers a relatively small selection—about 300 titles—but it does sell popular programs from well-known publishers, including Adobe, Corel, Microsoft, and Lotus.

buyonet.com

site available in six languages
• software available in 20 languages
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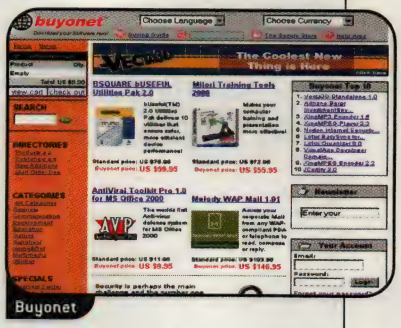
• good return policy

Buyonet sells software—both traditional boxed programs and downloadable commercial software. If the business software, utility, or game you want is available for download, you can pay for it, have it running in minutes, and save on shipping charges.



chumbo.com

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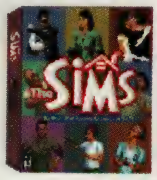
Chumbo.com's impressive software selection will excite any computer user. If you can't wait to try your new software and don't need a box, certain titles are available for immediate download. Shoppers can preorder software for shipment the day it is released.



CHECK IT OUT!

Choice Educational Software at Your Fingertips

mightyscholar.com

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When you're looking for educational software, it can be hard to find the program that's right for your children's ages and learning needs, not to mention one that won't bore them to death. **Mighty Scholar** sells hand-picked educational software, carefully categorized by age range and topic. View software aimed at preschoolers through 12th-graders, sorted into categories like geography, history, languages, math, reference, and science. You'll find basic information about each title, with extended reviews of selected software. Academic versions of educational software are available for schools.

SECTION CONTINUES ON PAGE 221

a dell pc.
an intel® pentium® III processor.
an $899 price tag.

[will the advantages of buying direct never cease?]

DELL™ DIMENSION™ L600r

Great Computer. Great Processor. Great Price.

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- 15" (13.8" vis) E550 Monitor
- Intel® 3D AGP Graphics
- 40X Max CD-ROM Drive
- SoundBlaster 64V PCI Sound Card
- PC Speakers
- V.90 56K Capable[6] PCI DataFax Modem for Windows®
- MS® Works Suite 2000
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1GHz INTEL® PENTIUM® III PROCESSING: For pure processing power on our Dell Dimension™ desktops. Supplies are limited—don't get left in the dust — www.dell4me.com/1GHz

DELL MOVIE STUDIO: The magic of the movies made easy. Capture, create, and share movies using the factory installed 1394 Card with MGI VideoWave® III Digital Editing Software, Dell edition. Available on select Inspiron™ and Dimension systems — www.dell4me.com/moviestudio

64MB DDR GRAPHICS CARD: Double data rate technology with twice as much memory for awesome gaming—www.dell4me.com/64MBddr

NEW DELL PROACTIVE SUPPORT BY ATTUNE™ recognizes and helps prevent potential problems with your system—www.dell4me.com/proactivesupport

DELL™ NOTEBOOKS:

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Design and Affordability

- Intel® Celeron™ Processor at 450MHz
- 12.1" SVGA Active Matrix Display
- 32MB SDRAM ■ 4.8GB[5] Ultra ATA Hard Drive
- Modular 24X Max CD-ROM
- 2X AGP 8MB ATI RAGE Mobility™-M1 3D Video
- 3D Positional Sound with Wavetable
- 52WHr Lithium Ion Battery with ExpressCharge™ Technology
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 1-Yr Limited Warranty[2]
- 1-Yr Next-Business-Day On-site Service[4]

$1499 As low as $41/Mo., for 48 Mos.[17]
E•VALUE CODE: **05808-800514**

DELL™ INSPIRON™ 5000

Performance and Mobility

- Intel® Pentium® III Processor at 500MHz
- 14.1" XGA Active Matrix Display
- 32MB SDRAM ■ 6.0GB[5] Ultra ATA Hard Drive
- Modular 32X Max CD-ROM
- 2X AGP 4MB ATI RAGE Mobility™-P 3D Video
- 3D Positional Sound with Wavetable
- 52WHr Lithium Ion Battery
- Internal 56K Capable[6] V.90 Fax Modem
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2]
- 3-Yr Next-Business-Day On-site Service[4]

$1999 As low as $55/Mo., for 48 Mos.[17]
E•VALUE CODE: **05808-800519c**

DELL™ INSPIRON™ 7500

Mobile Desktop

- Intel® Pentium® III Processor at 600MHz Featuring Intel® SpeedStep™ Technology[34]
- 15.4" Super XGA TFT Display
- 64MB SDRAM ■ 6.0GB[5] Ultra ATA Hard Drive
- Removable Combo 32X Max CD-ROM and Floppy Drive
- 2X AGP 8MB ATI RAGE Mobility™-P 3D Video
- 3D Positional Sound with Wavetable
- 79WHr Lithium Ion Battery
- Internal 56K Capable[6] V.90 Fax Modem
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- 3-Yr Limited Warranty[2]
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$2679 As low as $73/Mo., for 48 Mos.[17]
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Affordable Desktop Solution

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- 32MB SDRAM
- 4.3GB[5] Ultra ATA Hard Drive
- 15" (13.8" vis) E550 Monitor
- Intel® 3D AGP Graphics
- 40X Max CD-ROM Drive
- SoundBlaster 64V PCI Sound Card
- PC Speakers
- V.90 56K Capable[6] PCI DataFax Modem for Windows®
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

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DELL™ DIMENSION™ L600r

Affordable Desktop Solution

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- 64MB SDRAM
- 4.3GB[5] Ultra ATA Hard Drive
- 15" (13.8" vis) E550 Monitor
- Intel® 3D AGP Graphics
- 40X Max CD-ROM Drive
- SoundBlaster 64V PCI Sound Card
- PC Speakers
- V.90 56K Capable[6] PCI DataFax Modem for Windows®
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- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

$899 As low as $25/Mo., for 48 Mos.[17]
E•VALUE CODE: **05808-500508**

DELL™ DIMENSION™ XPS T700r

High Performance, Great Value

- Intel® Pentium® III Processor at 700MHz
- 128MB SDRAM ■ 20GB[5] Ultra ATA Hard Drive
- 17" (16.0" vis, .28dp) E770 Monitor
- 16MB ATI RAGE 128 Pro
- 48X Max CD-ROM Drive
- Turtle Beach Montego® II A3D™ 320V Sound Card
- harman/kardon Speakers
- V.90 56K Capable[6] PCI Telephony Modem for Windows®
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

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E•VALUE CODE: **05808-500514m**

DELL™ DIMENSION™ XPS B866r

Cutting Edge Technology

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- 32MB NVIDIA geFORCE 4X AGP Graphics Card
- NEW 12X Max DVD-ROM Drive
- SB Live! Value Digital
- Harman Kardon HK-595 Surround Sound Speakers with Subwoofer
- V.90 56K Capable[6] PCI Telephony Modem for Windows®
- MS® Works Suite 2000
- MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]

$2599 As low as $71/Mo., for 48 Mos.[17]
E•VALUE CODE: **05808-500525**

DELL™ UPGRADES:

SOFTWARE & PERIPHERALS

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- HP® DeskJet® 970Cse, add $399
- HP® DeskJet® 952C, add $299
- HP® DeskJet® 932C, add $199
- Epson Stylus Color 860, add $199
- Epson Stylus Color 740, add $149

Scanners:
- HP® ScanJet® 6300Cse, add $399
- Epson Perfection 610U, add $149

Power Protection:
- APC Back-UPS Office 500, add $99

Software:
- Family Fun 5-Game Pack Featuring Roller Coaster Tycoon,™[16] add $99

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pentium® III

[10]Includes 150 hrs./month, plus $1.50/hr. (or fraction) over 150 hours. #800/888/877 access charged $4.95/hr. extra. Excludes taxes and telephone charges. Additional $1.00/hr. surcharge in HI and AK. [17]Monthly payments based on 13.99% APR. APR FOR QUALIFIED CUSTOMERS VARIES BY CREDITWORTHINESS OF CUSTOMER AS DETERMINED BY DELL FINANCIAL SERVICES L.P. Taxes & shipping charges extra, and vary; they are due with 1st payment unless included in the amount financed. Purchase Plan from Dell Financial Services L.P. to U.S. state residents (including D.C.) with approved credit, excluding AR and MN residents. Availability may be limited or offer may vary in other states.

[1]Prices, specifications, and availability may change without notice. Taxes and shipping charges extra, and vary. Cannot be combined with other offers or discounts. U.S. only. [2]For a copy of Guarantees or Limited Warranties, write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, Texas 78682. [4]At-Home or on-site service provided via third-party contract with customer. Availability varies. Technician will be dispatched, if necessary, following phone-based trouble-shooting. To receive Next-Business-Day service, Dell must notify the service provider before 5pm (customer's time). Other conditions apply. [5]For hard drives, GB means 1 billion bytes; accessible capacity varies with operating environment. [6]Download speeds limited to 53Kbps. Upload speeds are less (about 30Kbps) and vary by modem manufacturer and online conditions. Analog phone line and compatible server required. [12]Online backup services provided by third-party agreement with the customer. Limited to 20MB of storage; additional space available at additional charge. Dell is not responsible for lost data. [16]Software, packaging and documentation differ from retail versions. [18]The processor may be reduced to a lower operating speed when operating on battery power. Intel, the Intel Inside logo, and Pentium are registered trademarks, and Intel SpeedStep and Celeron are trademarks of Intel Corporation. MS, Microsoft, IntelliMouse, and Windows are registered trademarks of Microsoft Corporation. HP and DeskJet are registered trademarks of Hewlett-Packard Corporation. Trinitron is a registered trademark of Sony Corporation. ©2000 Dell Computer Corporation. All rights reserved.

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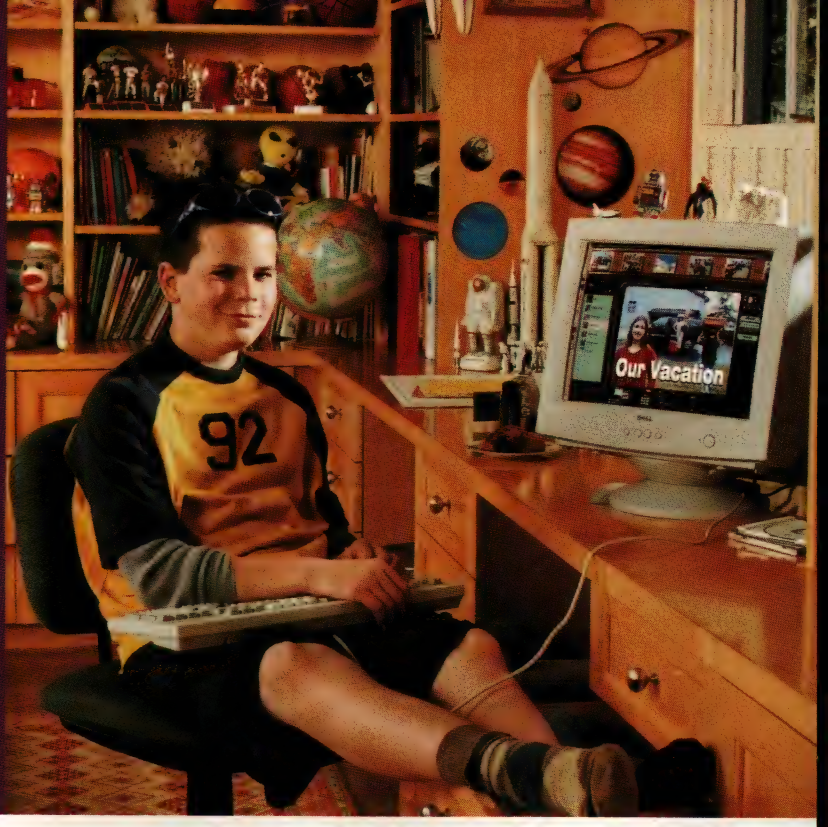

DELL™ DIMENSION™ XPS T600r

Dell's Movie Studio

- Intel® Pentium® III Processor at 600E MHz
- 128MB SDRAM ■ 30GB[5] Ultra ATA Hard Drive
- 17" (16.0" vis, .28dp) E770 Monitor
- 32MB NVIDIA TNT2 M64 AGP Graphics
- 48X Max CD-ROM Drive
- 8x/4x/32x CD-RW Drive
- Turtle Beach Montego® II A3D™ 320V Sound Card
- harman/kardon Speakers
- V.90 56K Capable[6] PCI Telephony Modem for Windows®
- MS® Works Suite 2000 ■ MS® Windows® 98, SE
- 3-Yr Limited Warranty[2] ■ 1-Yr At-Home Service[4]
- FREE 1394 PCI Card with MGI VideoWave® III Digital Editing Software, Dell™ Edition (Offer Expires 5/31/00)
- FREE EducateU.com Digital Video Editing Training Course

$1599 E-VALUE CODE: 05810-500515v

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With our New Dell™ Movie Studio Solution, you'll be editing digital videos, adding soundtracks, selecting stills, and e-mailing your brilliance to the world faster than the 1-hour-photo lab can say "singles or doubles?" Dell Movie Studio comes pre-tested and factory-loaded on select Dimension™ desktops, featuring powerful Intel® Pentium® III processors. And, of course, it's all backed by Dell's award-winning technical support. Dell Movie Studio. It's just one more way Dell4me™ helps your family get the most out of your PC.

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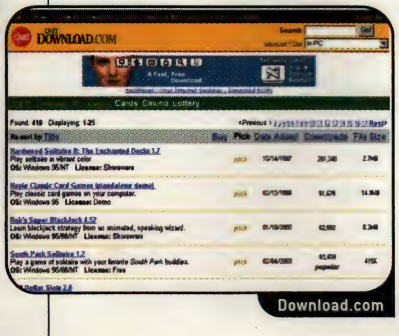

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Windows users who want great software without having to spend any money can start at **Freeware Files.** This Web site offers links to gratis business applications, screen savers, games, and many other types of software. It features quick links to the most popular giveaways.

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mightyscholar.com

Extended listing this month. See p. 216.

999software.com

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The **999software.com** site offers 500 programs, each for $9.99. Shoppers can find a wide variety of software here, although educational, entertainment, and lifestyle programs are the most common.

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SECTION CONTINUES ON PAGE 226

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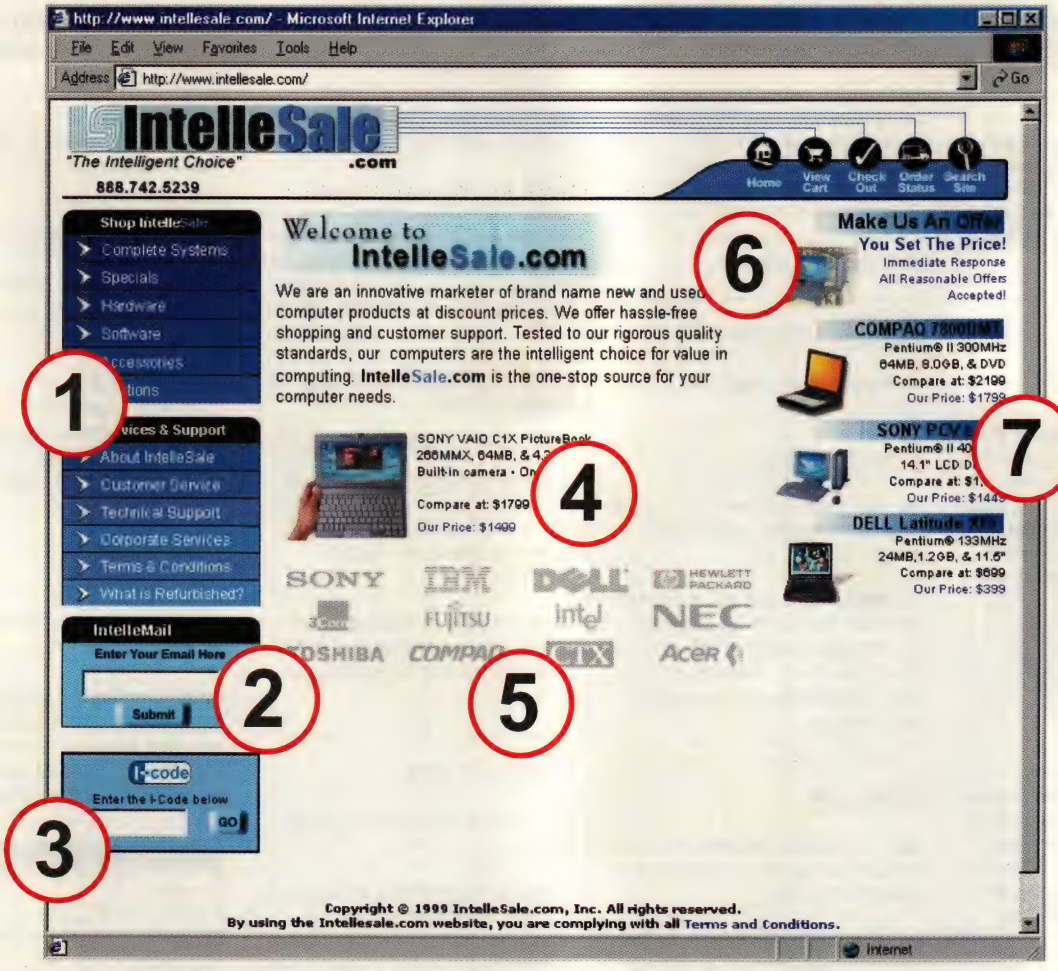

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Due to the product depth of our inventory, we are able to offer our customers a broad range of product types. Not only do we offer traditional **Brand New** products, we go beyond that product line and are able to provide consumers with other options. **Manufacturer Refurbished**, **New End-of-life** and **IntelleSale.com Off-Lease** products help to complete our "Product Cycle."

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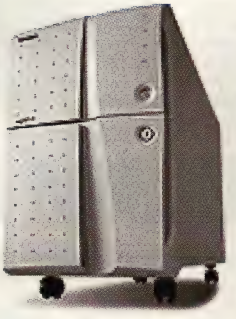

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16MB RAM	24MB RAM	40MB RAM	32MB RAM
810MB HDD	1.2GB HDD	1.2GB HDD	2.1GB HDD
3.5-inch Floppy	3.5-inch Floppy	3.5-inch Floppy	8X CD-ROM
10.4" DSTN Display	11.5" TFT Display	11.3" DSTN	12.1" TFT
Refurbished 6-Month Warranty	Refurbished 6-Month Warranty	Refurbished 6-Month Warranty	Refurbished 6-Month Warranty
$249 I-Code: NBDELXPI90D	$349 I-Code: NBDELXPI133	$399 I-Code: NBIBM365X	$599 $25.10 per month Leasing option I-Code: NBCPQ7730MT

Desktop Computers

Compaq Deskpro 5100	IBM PC & Monitor	IBM PC365	CTX SIC433
Intel Pentium100MHz	Intel Pentium 100MHz	Intel Pentium Pro 200MHz	Intel Celeron 433MHz
16 MB RAM	16 MB RAM	32MB RAM	32MB RAM
1.0 GB HDD	850MB HDD	2.1GB HDD	4.3GB HDD
56K Modem	15" Monitor	4x CD-ROM	40x CD & Sound
4xCD-ROM	CD & 56K	S3 Trio Video Controller	56K Modem
Refurbished 6-Month Warranty	Refurbished 6-Month Warranty	Refurbished 6-Month Warranty	Refurbished 6-Month Warranty
$110 I-Code: DTCPQ100CD	$175 I-Code: DTIBM350100M	$225 I-Code: 658918U	$399 I-Code: MTCTX433

Monitors

Major Brand 17" Special	Dell UltraScan 20 TX	Nokia 800Xi
17" SVGA Color Monitor	20" SVGA Color Monitor	18.1" Viewable Area
Viewable Area May Vary	19.0" Viewble Image Size	LCD Flat Display
1024 x 768 Max Resolution	Sony Trinitorn Tube	1280 x1024 Resolution
.28 or better Dot Pitch	1600 x 1200 Max Resolution	16.7 Million True Colors
Assorted Manufacturers	.26 Dot Pitch	Two Stereos Speakers
Refurbished 6-Month Warranty	Refurbished 6-Month Warranty	New 3 Year Warranty
$109 I-Code: MB17MON	$239 I-Code: MODEL2026	$2599 $105.26 per month Leasing option I-Code: MONOK11

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2.1 GB HDD
Creator 3D
20" Sun Monitor
Factory Refurbished - 30 Day

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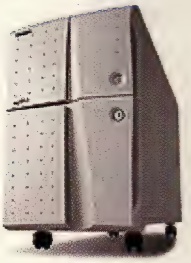
I-Code: SUN170



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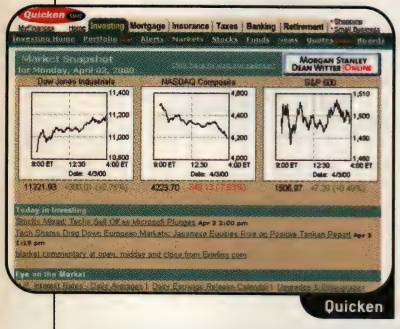

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stock screener • links to publications on economy, equity, and markets

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AuctionRover puts at your disposal a cross-auction search engine that hunts for items in 12 categories (including miscellaneous). It offers useful services, tools, and articles—updated weekly—for both sellers and bidders.

auctions.cnet.com

well-defined categories make items easy to locate • smooth navigation

At **CNET Auctions,** a site dedicated to computer-product auctions, you can bid on the hardware and software listed, or put any computer items you'd like to sell on the block. Sellers range from individuals to well-known companies.

SITE REVIEWS

auctions.com

offers auction types unavailable elsewhere • smooth navigation

diverse category listings can be hit-or-miss

At **Auctions.com,** you'll find 6,000 categories of user-to-user auctions. The computer-auction listings offer a respectable quantity of PC hardware and software. There is no fee to list items for sale, but the site takes a small percentage if your items sell.

auctions.yahoo.com

no charge to list items for sale • large selection of antiques and collectibles • smooth navigation

Yahoo's user-to-user auction site offers hundreds of thousands of items in diverse categories ranging from computer hardware to motorcycles. Collector clubs, message boards, and live chat let sellers and buyers talk, ask questions, and trade items.

auctions.zdnet.com

the Auction Agent will notify you when a new auction meets your criteria • smooth navigation

ZDNet's auction site primarily offers computer hardware and software. Categories include consumer electronics, gaming, domains and services, and items under $25. You'll find user-to-user auctions, as well as new and used items offered by well-known businesses.

bid.com

U.S., Canadian, European, and Asian sites • smooth navigation

The **Bid.com** business-to-user equipment auction site offers desktop and notebook computers, monitors, upgrades, cameras, and home electronics. Equipment may be new or refurbished.

ebay.com

mind-boggling variety of products • all purchases up to $200 are insured • smooth navigation

The **eBay** auction site specializes in linking sellers and buyers of everything under the sun, from computer equipment to collectible toys. Chances are you can find anything you need here—from Beanie Babies to BIOS chips.

ewanted.com

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unique system, but the selection of "items wanted" is small compared to the number of products for sale on traditional auction sites.

"Turning auctions upside down" is the goal of **eWanted.** The site allows potential buyers to list the items they're looking for. Sellers can submit offers, bidding down the price. Categories include computer equipment, antiques, baby items, and real estate.

haggle.com

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Haggle.com is a user-to-user auction site. Bidders will find nearly 40 computer-related categories, plus "other stuff" auctions ranging from musical instruments to automobiles. Sellers will appreciate the free basic listings.

itrack.com

auction news area

Simple to use, **iTrack.com** searches online auctions so you don't have to. Free memberships allow you to select five patterns (combinations of an auction site and an item) at a given time; for $25 per year, you can search 10 patterns at a time; and for $50, 20 patterns at a time. There are 14 auction sites from which to choose.

tradeout.com

smooth navigation

TradeOut.com describes itself as a "business-to-business exchange for excess inventory and idle assets." It helps companies buy and sell surplus goods—from computers to car parts to construction supplies. Most items are sold at auction, but others are available on a first-come, first-served basis.

ubid.com

smooth navigation

UBid's business-to-user auction house offers computers, electronics, housewares, sports items, jewelry, and gifts. If you can't wait several days to learn if you've won, click on the Auctions Closing This Hour link.

SECTION CONTINUES ON PAGE 230

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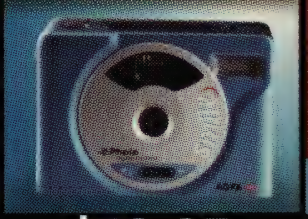

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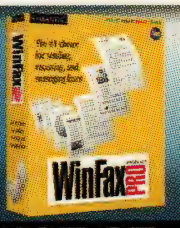

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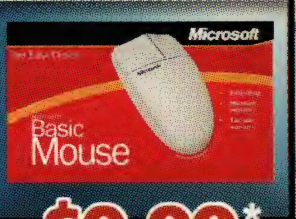

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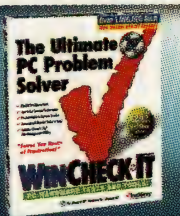

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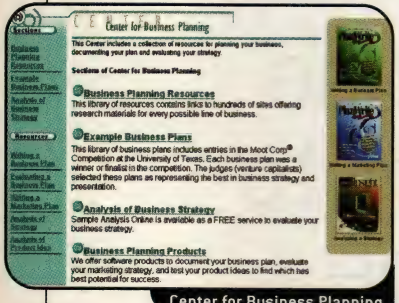
The **Center for Business Planning** offers a library of real business plans that you can download and review offline, an automated tool that can evaluate your marketing strategy, and a massive collection of links of interest to anyone starting a business.



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A Paycheck Resource That Pays Off

paycheckcity.com

Anyone who gives or gets paychecks should pay a visit to **Paycheck City**. The site provides five Web-based calculators to verify the accuracy of payroll checks. Employers can use the site to complete W-4 forms, and employees can check that the company isn't taking too much out for federal, state, and Social Security taxes. You can also figure the future value of your 401(k) savings plan and calculate withholding on wage bonuses.

The online tools are free, but the site sells desktop payroll tools as well. A glossary of payroll terms and a list of other paycheck links round out this handy resource.

www.fedworld.gov/taxsear.htm

smooth navigation • order federal tax information on CD-ROM

At **FedWorld** you'll find downloadable tax forms for tax years 1992 through 1999 and instructions on filling them out, as well as IRS publications, tax tables, and tax regulations.

iship.com

Extended listing this month. See this page.

officebase.com

smooth navigation

orders may take three weeks to fill

From office machines to snacks, this office-supply store sells just about anything you could need in the workplace. **OfficeBase** is simple but effective, making it easy to find products.

onlinepayroll.com

Online Business Services will help any business become more efficient and receive more than 80 financial reports. Online Payroll can receive input by telephone, fax, modem, or direct link with your electronic time clock.

paycheckcity.com

Extended listing this month. See this page.

pointofsale.com

Pointofsale.com specializes in retail essentials, including point-of-sale software and hardware, bar-code scanners, magnetic-stripe readers, and receipt printers. FAQs answer basic questions about bar codes, POS systems, and cash drawers.

smartship.com

helps find your nearest package drop-off site

limited information about smaller shippers

SmartShip makes it easy to select the right carrier for your shipments. Enter the weight and other details about your package, and the site will help you choose the best major carrier, whether your priority is speed or cost.

SmartShip

www.ssa.gov

smooth navigation

The **Social Security Administration's** site can make the necessary task of paying Social Security understandable to small-business owners. The Guide for Employers offers detailed help with employer wage-filing responsibilities. The FAQ answers questions about preparing documentation and filing deadlines.

stamps.com

no special hardware required
must be online to print postage

Stamps.com lets customers buy postage online and print it using an inkjet or laser printer. You can send items First Class, Priority, and Express Mail. Delivery confirmation and certified mail are also available.

usa.net

USA.net can set up a Web post office for your business, letting you and your employees have instant access to e-mail from any Web browser. The long list of standard and premium features includes necessities such as spell-checking and language translation.

www.virtualpayroll.com

Virtual Payroll simplifies the cycle of payroll and taxes for small businesses. Through this secure site, company and employee information is entered to set up initial payroll accounts; with periodic updates, employees are paid by direct deposit within 48 hours.

webex.com

offers Web-based business collaboration
requires a special plug-in

WebEx is an online collaboration system that hosts thousands of daily meetings. Share documents and applications with colleagues who have your meeting-room password and the WebEx plug-in. Free "virtual offices" offer personalized conference rooms with online calendar, address-book, document-storage, and directory tools.

SITE REVIEWS

TRAVEL AND LEISURE

all-hotels.com

smooth navigation

All-Hotels.com connects travelers to a whopping 40,000 online-bookable hotels. The main directory will help you find lodging around the world, sometimes at reduced rates for Internet users. Links to each hotel's home page are provided when available.

www.biztravel.com

tracks frequent-flyer miles automatically • trade-show information • smooth navigation

Research your destination, plan your trip, and make airline, car, and hotel reservations at **Biztravel.** Catering to the business traveler, Biztravel offers unique services, including predeparture pager alerts and the ability to download your itinerary to your palmtop.

expedia.com

sells luggage and accessories • smooth navigation

At **Expedia.com**, travelers can book flights, hotel rooms, cars, vacation packages, and cruises. A fare calendar makes it easy for frugal shoppers to see the lowest airfares available. The FareTracker tool keeps tabs on fares to particular destinations and e-mails alerts.

got.com

information on major chains and regional providers

Shoppers can make instant reservations for air travel, rental cars, and hotels at **Global Online Travel.** Vacation packages are available, or you can design your own. The Global Spotlight section offers information on myriad topics ranging from spa vacations to flying with pets.

hoteldiscount.com

Extended listing this month. See this page.

lvrs.com

entertainment calendar and reviews

With more than two dozen Las Vegas hotels from which to choose, **Las Vegas Reservations System** lets shoppers price and book their accommodations without a lot of calling around. Check out what each hotel has to offer, from museums to roller coasters.

onetravel.com

smooth navigation • Ask the Expert feature offers advice on air travel

The **1travel.com** site boasts a huge variety of specialty vacations, plus a wide array of options in destinations and lodging. Check out your travel choices such as train trips, cruises, or tours. See all the lodging alternatives: apartments, bed-and-breakfasts, even spas.

placestostay.com

A tool for finding lodging and making reservations, **Places to Stay** lists more than 10,000 hotels, bed-and-breakfasts, inns, and resorts. Book, modify, or cancel your reservation online, and you get an instant confirmation.

CHECK IT OUT!

Get a Hook Into Hotel Discounts

hoteldiscount.com

smooth navigation

Looking for a place to hang your hat and rest your head? The Hotel Reservations Network allows travelers to comparison-shop, find accommodations, and make reservations in 2,000 hotels in 40 cities in the United States, Europe, and Canada. **Hoteldiscount.com** specializes in providing accommodations during peak sold-out periods, and claims to offer prices that are substantially lower than published rates. There's plenty of information about each property, including prices, room photos, availability, and nearby attractions. You can book your room online, and if necessary, change or cancel your reservation, although there is a fee.

TIPS for Buying Airline Tickets Online

- Check out the deals at more than one online travel agent. You can find different flights and fares at different sites. Also, you might find slightly lower fares by buying tickets directly from the airline's Web site.
- Take advantage of special features that a site provides. You may be able to choose your seating arrangements, for example. Some online travel agents send e-mail and pager updates if your flight is delayed.
- Triple-check the dates, price, and other details of a flight before you commit to purchasing the tickets. Airlines often charge substantial fees for changing or canceling ticketed reservations.
- Depending on the agent and airline, you may be able to buy a paperless "e-ticket," pick up the ticket at the airport, or have the ticket delivered in the mail.
- When you buy your tickets, write down the order number and the customer-service phone number. If you don't receive an e-mail or other confirmation in a reasonable amount of time, call to verify it. You don't want to arrive at the airport and learn that the reservation was not ticketed.
- If you collect frequent-flyer miles, look out for online deals that can earn you bonus miles though ClickRewards.com or other programs.
- You may want to use a traditional, offline agent to help plan complicated trips or international travel arrangements, or if you have special travel needs.

SITE REVIEWS

tickets.com

smooth navigation • buy tickets directly or at auction

Entertainment, sports, and travel: If you need a ticket to get in, chances are you can buy that ticket at **Tickets.com.** The site also offers information about—and tickets to—family entertainment venues, including museums, zoos, and theme parks.

travel.discovery.com

world maps

From the cable channel of the same name, the **Travel Channel** offers pointers to vacation-information sites and more. The forums let you discuss educational vacations and critique travel books. The shopping area offers CD-ROMs, books, videos, and deals on tours and cruises.

travelite.org

links to commercial sites where you can buy travel essentials

The **Travelite FAQ** offers tips on traveling light—with just a carry-on bag and without the worry of losing checked bags. The site reviews luggage, gives wardrobe selection tips, explains electrical adapters, and more.

travelocity.com

Travelocity provides secure online transactions for air, car, and hotel reservations. At this site, you can research potential destinations, find a bed-and-breakfast, make your reservations, and find a deal on a rental car.

travelscape.com

no-risk reservation guarantee • around-the-clock customer service by phone

Simply choose from **TravelScape's** selection of major U.S. cities, then pick the dates of your vacation. This Web-based travel store outlines the options and lets you determine your itinerary.

travelweb.com

You can book your flight, rent a car, and find a hotel room with **TravelWeb.** Search for hotels by city, amenity, price range, and other criteria.

travel.yahoo.com

redeem Yahoo Points for gift certificates and prizes • smooth navigation

At **Yahoo Travel,** you can buy your next vacation or plan ahead. You can search by destination, activity (such as cruises, adventure tours, and sports), or lifestyle (such as vegetarian, Jewish, or special needs).

trip.com

unique articles in travelers' NewsStand • smooth navigation

Visit **Trip.com** when you want to book a flight, a rental car, or a hotel room. The cool FlightTracker will give you details about any current flight, including location, estimated landing time, and type of aircraft.

CONSUMER ELECTRONICS

consumer-direct.com

smooth navigation

Shopping for something simple, such as a surge protector? Or complicated, like C-Band satellite receivers? Either way, **Consumer Direct Warehouse** can provide a selection of brands and styles to explore.

crutchfield.com

online specials offer deep discounts • two-day delivery on all items • smooth navigation • easy ordering • good return policy

Here's a site to visit whether you're in the market for a home theater or for a car stereo. **Crutchfield** also offers toll-free technical assistance.

800.com

review your complete order history • smooth navigation • easy ordering • good return policy

The **800.com** site specializes in video and audio systems, personal electronics, video games, and movies. See side-by-side comparisons of products. The selection includes digital cameras, televisions, and home and car stereos.

electronics.net

auction merchandise available • smooth navigation

As the online division of an established retail business, **electronics.net** has a great selection of appliances, such as home-office necessities, consumer-electronics items, auto alarm systems, and hair dryers. Special orders are welcome, and online coupons are available.

etown.com

smooth navigation

shipping costs and return policies can vary among etown.com partners

Consumer electronics is the focus at **etown.com,** a site offering gadgets like cordless phones and flat-screen televisions. The site also serves up consumer-electronics news, informative features, and a knowledge bank that explains how to buy, use, and troubleshoot equipment.

giantsavings.com

smooth navigation

GiantSavings.com offers a wide selection of home electronics, ranging from DVD players to PDAs. Operating a traditional retail location for more than 25 years, this Web extension combines rich experience with new technology.

globe-mart.com

smooth navigation • good return policy

Global Mart's electronics area offers audio/video components, flat-panel displays, digital cameras, and multifunction printers. The selection also includes handheld PCs and UPS backup.

igo.com

real-time online support • smooth navigation • easy ordering

The **iGo** site sells electronic necessities for folks on the go, including PDAs, cellular phones, and global positioning receivers. The extensive catalog of add-ons includes antennae, batteries, carrying cases, and other accessories for users of mobile digital devices.

servicemerchandise.com

smooth navigation • good return policy

many items only available for in-store pickup

In business for nearly 40 years, **Service Merchandise** is a catalog showroom offering electronics, exercise equipment, toys, travel items, and jewelry. The electronics area of its Web site sells home-office products, video equipment, sound systems, and cameras.

Service Merchandise

theweb-shop.com

easy ordering

Shop **The Web Shop** for a wide variety of home-electronics offerings, including computers, home-office equipment, cameras, camcorders, home or car audio, and even musical instruments. Customer service is available by e-mail.

CAMERAS

abbeycamera.com

links to manufacturer sites • smooth navigation • good return policy

Abbey Camera's catalog of more than 13,000 cameras and accessory items

Abbey Camera

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- 24 pages per minute
- 600 dpi with 600 x 1200 graphics
- 16 MB of standard memory
- Digital LED output
- 1-year on-site limited warranty on parts and labor, and the industry's only 5-year printhead warranty

#114250

OkiPage® 8w — $230.00

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#672660

- 8 pages per minute
- 600 x 600 dpi
- 100-sheet automatic paper feed
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- 1-year limited warranty on parts and labor with Overnight Exchange and industry's only 5-year printhead warranty

Many Other Special Deals

IBM ThinkPad 390E — $2,522.14

#052004

- Pentium II 333MHz
- 64MB RAM, 6.4GB Hard Drive
- 24x CD-ROM drive, 56K modem
- 14.1 TFT screen
- Lithium Battery
- 1 year-limited warranty

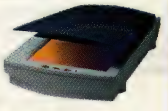
Hitachi 19" Monitor — $576.58

#367199

- 0.22 mm horizontal dot pitch. 0.14 mm vertical dot pitch
- True 1600 x 1280 max resolution
- Super High Contrast tube
- EasyMenu™ on-screen control (in 5 languages) makes adjustment easy
- 3-year limited warranty covers all parts (even the tube) and labor

Umax 2200 Scanner — $180.00

600 x 1200 DPI. Flatbed 8.5 x 11



#468391

- Color Flatbed Scanner
- 36-bit color
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Kodak DC220 Digital Camera — $588.00

2X Optical/Zoom, 1 MegaPixel, USB

#158928

- 2X Optical plus 2X Digital Zoom
- 2.0" TFT color LCD View Finder
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- Serial, USB and Audio/Video cables included
- 1 year warranty

Logitech Keyboard and Mouse — $99.00

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- Keyboard and Mouse with Digital Radio Technology
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- 5 year warranty

Adobe PageMaker plus V6.5.2 — $486.81

#997886

- Professional page layout for business
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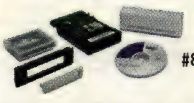
- Professional typographic controls
- Includes Photoshop® 5.0 LE software

IBM 10/20GB TR-5 tape drive — $293.20



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will impress even veteran photographers. The options range from 35mm cameras to medium- and large-format models, darkroom supplies, and professional gear.

keh.com

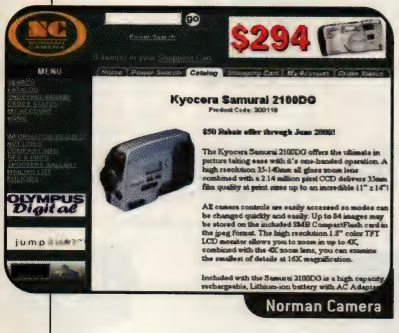
message board offers technical advice • smooth navigation • good return policy

In business for 20 years, **KEH Camera Brokers** peddles new items as well as good-condition used equipment. The automated buying service gives an immediate quote on what KEH will pay for your used equipment.

www.normancamera.com

good return policy

From point-and-shoot models to high-tech digital cameras, you're likely to find it in **Norman Camera's** catalog. There is a large selection of film scanners, video cameras, and accessories.



photoalley.com

tips and how-to articles • smooth navigation • easy ordering • good return policy

From Agfa to Yashica, if it has a lens, it's at **Photo Alley.** This site features a catalog of more than 11,000 products, ranging from cameras and gadget bags to video cameras and even binoculars.

ritzcamera.com

free shipping • smooth navigation • easy ordering • good return policy

In addition to offering cameras and accessories, **Ritz Camera** also sells photo albums and frames. Shoppers with a retail location nearby can see their photos online in one hour, then order reprints or merchandise with a photo on it.

ACTIVE GEAR

eddiebauer.com

clearance area and weekly specials • gift certificates • smooth navigation • good return policy

Eddie Bauer is known for its diverse selection of sporty clothing for men and women. Its Web shop also sells gear ranging from telescopes to children's clothes.

fogdog.com

search squad locates hard-to-find products • can design and order custom uniforms • smooth navigation • easy ordering • good return policy

Sports enthusiasts will appreciate **Fogdog,** a sporting-goods store that sells 15,000 products from apparel to sports books. The Coach and Ump branch offers field equipment, sports-medicine items, and team-management software. The site stocks fan memorabilia for any pro team you can name.

gear.com

many links to product manufacturers' sites • smooth navigation • good return policy

Gear.com sells closeout sporting goods for activities from aerobics to water-skiing. Shop by activity to zoom to products for your favorite sport. You can also shop by brand, or zip to the new gear added to the catalog recently.

landsend.com

personalized shopping aids • gift certificates available • easy ordering • good return policy

The **Lands' End** Web site lets shoppers outfit the entire family for any season. You can find great bargains in the overstock area, as well as a superb selection of luggage and linens. The "shop with a friend" function allows you to shop collaboratively on the Web.

www.llbean.com

corporate sales • home furnishings • smooth navigation • good return policy

L.L. Bean has been selling its outdoor adventure gear by mail order for decades. Shoppers looking for anything from fly rods to infant-size snow boots will be well served by this expansive site.

SITE REVIEWS

rei.com

gift registry • site available in five languages • smooth navigation • easy ordering • good return policy

REI sells sporting goods, plus wardrobe staples. This Web store's diverse selection includes everything from vehicle racks to casual dresses. The outlet area offers fantastic prices on name-brand merchandise.

BOOKS AND MUSIC

www.alibris.com

Book Hound tool will search for a book for a month and e-mail you • smooth navigation • easy ordering • good return policy

The site offers one-stop searching and browsing of hundreds of independent booksellers around the globe. You don't have to be a book collector to appreciate the massive selection in categories from to romance to computers.

amazon.com

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Amazon.com's catalog of books, CDs, and videos is nothing short of gargantuan. Speedy searches and insightful recommendations make it easy to find what you're looking for, even if you don't know for sure what that is.

www.audible.com

smooth navigation • easy ordering

Audible delivers the next generation of books on tape. Buy and download audio programs, such as *The Wall Street Journal* or best-selling books. Then listen to the programs on your PC or a portable player.

bestbuy.com

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Best Buy offers a fine selection of audio CDs and DVD movies. Music lovers will find artist information, release notes, and sample audio tracks. Flicks fans get cast lists and details about DVD bonus content.

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bookfinder.com

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BookFinder is a search engine that scans many booksellers' databases to find new, used, rare, and out-of-print books. It is a quick way to search several independent bookstores at once for hard-to-find titles.

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If you've ever gotten lost in one of **Borders'** enormous retail stores, you'll appreciate this vast site. It offers a selection of 10 million books, CDs, and videos. Check out the In the News listings to find today's topical books.

cdnow.com

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CDNow is a megasite offering an extensive catalog of titles on vinyl, cassette, and CD. RealAudio sound clips and reviews are available for many of the discs. The Album Advisor suggests other bands you'll enjoy.

cdworld.com

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CD World sells software, video games, movies, and music—more than half a

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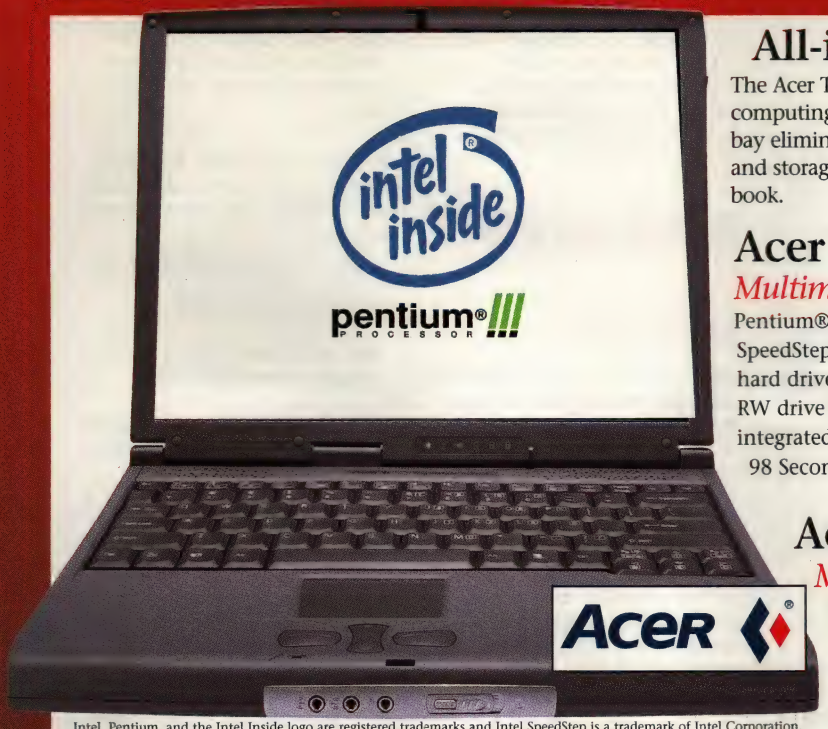

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Checkout.com offers music, movies, and video games, wrapped up in an entertaining shopping experience. The site serves up featured artists, quizzes, trivia, and lists of top sellers. You'll find plenty of detail about each item, complete with an editor's review, ratings, and technical details.

codysbooks.com

world's largest selection of Passover books and merchandise • 20 to 30 percent discounts on best-sellers

An independent bookstore based in Berkeley, Calif., **Cody's** offers a searchable catalog of its 150,000 in-stock titles. In addition, the store can order any in-print book, plus books published in some other countries. The site offers thoughtful recommendations and reading lists.

emusic.com

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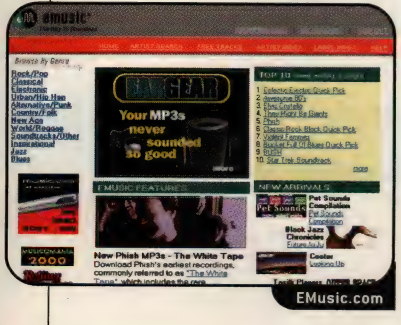
EMusic.com offers downloadable MP3 music in a wide variety of genres. You can purchase an individual song, usually for 99 cents, or download an entire album for about $9.



ktel.com

online radio station • $3 CDs in the bargain bin • smooth navigation • easy ordering • good return policy

Six departments at **K-Tel** offer a variety of merchandise with an emphasis on entertainment. At the custom CD store, shoppers can design their own compilation discs. The music store offers box sets of popular favorites. The video store offers dozens of video, laserdisc, and DVD titles.

muzicdepot.com

create custom CDs • smooth navigation • good return policy

From electronica to gospel, **Muzic Depot** has just about any in-print CD or cassette you can name, as well as information about out-of-print titles. Tell the Music Advizor about your tastes, and it will recommend other artists you may enjoy. The site also offers movies in the DVD and VHS formats.

powells.com

rare books • online reading group • smooth navigation • good return policy

Book lovers know **Powell's** as an independently owned megastore in Portland, Ore. You can search Powell's renowned selection of new and used books at its Web store. Browse through the staff picks and recommendation center for more great reads.

samgoody.com

smooth navigation • easy ordering • good return policy

Sam Goody offers "movies, music, and more." The "more" includes software, video games, sheet music, and related books. The MySamGoody tool builds a personalized site around your entertainment interests.

www.towerrecords.com

downloadable music • make your own CD • smooth navigation • good return policy

The **Tower Records** site features a huge selection of music and videos. The search tool lets shoppers find music based on the artist, the title, or even the name of a single song. The Pulse online magazine includes reviews and interviews from pop and classical artists.

virginmega.com

daily music news and gossip • new releases featured weekly • smooth navigation • easy ordering • good return policy

Visit **Virgin's** legendary music and video store without taking a trip to Times Square. The megastore's site offers an incredible selection of tunes, DVDs, and videos, with thoughtful commentary on featured items and RealAudio previews of many tracks.

SITE REVIEWS

ONLINE TOY STORES

cyberrebate.com

"100% Off" tab shows 300 products whose rebates equal their cost • smooth navigation • easy ordering • good return policy

rebates take 10 to 14 weeks to process

CyberRebate.com only sells products that come with money-back rebates. In addition to toys, the site also offers computer software and accessories, electronics, sports items, collectibles, and kitchen and home items.

etoys.com

low-price guarantee • smooth navigation • easy ordering • good return policy

EToys stocks more than 100,000 children's items in myriad departments. There's even a baby store.

faoschwarz.com

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FAO Schwarz's illustrious house of toys has a neat and orderly Web store.

hearthsong.com

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Hearthsong's toy area offers a distinctive and diverse array of merchandise, and the sale area features great deals.

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smarterkids.com

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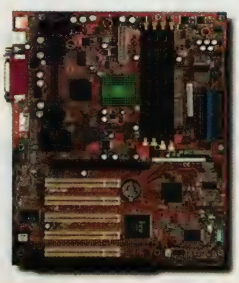

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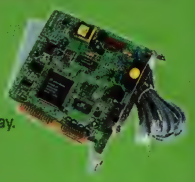
- > **$270.49** Asus V6600 Deluxe 32MB AGP G-Force (HDASUSV6600D32)

Based on the new Intel i820 chipset, the Asus P3C2000 mainboard offers the latest support in Intel Pentium III 300-733+Mhz processors. With its dual UDMA/66 BM IDE connector, AGP 4X/PRO slots, jumperfree BIOS and CPU setting, and allowing up to 1GB of SDRAM, this board will provide users with the maximum stability and quality.

Motorola Generic 56K V.90 Modem

> $15.95 (HDMOTOISA56K)



This retailed boxed modem combines voice/audio mode with full-duplex speakerphone and is V.90 and K56 Flex compatible. At only $15.95 surfing online at V.90 is only a mouse click away.

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D-Link DE-528CT, 10 mbps 32 bit PCI, 1 Thin RJ-45 Combo networking card
> $22.95 (HDDLNKDFE-530TX)
D-Link DFE-530TX, 10/100 mbps PCI ethernet networking card
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D-Link DSB-500 USB PCI internal controller card

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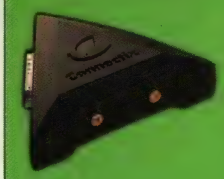

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Quick Clip Easy Video Capture device allows video capture via the parallel port from any video source like a camcorder or a VCR.

3Com Palm VII

> $450.95 (HD3CPALMVII)

With this sophisticated device, you can now check stock quotes, send emails, book a flight, get directions, read the news, and find the nearest ATM machine all with the flip of Palm VII's antenna.

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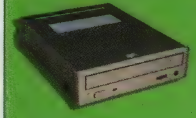

Ricoh's MP7060S 24X/6X/4X rewritable SCSI internal drive is a cost effective solution for storing audio and video files, creating presentations, backing up data, and making your own music CDs.

Toshiba Portege 7010CT

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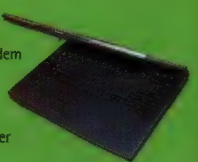

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pentium III

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E-BUSINESS

E-Support Goes Live

BY DENNIS SCHAAL

Online support for small businesses is moving into the real-time realm.

If your server crashes or your e-mail system quits, nothing can replace onsite tech support. But for less disastrous problems, small businesses have a wealth of online support options that save time, money, and manpower.

Online tech support is as old as the Web itself, but as it becomes more interactive and useful, it's increasingly gaining favor among businesses with small or nonexistent IT departments. By 2003, e-support is expected to become a $14 billion business, according to research firm IDC.

To take advantage of online support, you have to know what type of support you need and what sort of turnaround time is sufficient. Do you need live chat, or will e-mail be fast enough? Will remote diagnostics serve your purposes, or do you require onsite support as well? With all the options available, including Net marketplaces, interactive tech advisors, knowledge bases, Web-based problem-tracking software, and remote-diagnostic tools, you should have no problem finding a solution that meets your needs.

Many e-support companies targeting small businesses offer a blend of these services. Net marketplace NoWonder ***(www.nowonder.com)***, for instance, puts you in touch with thousands of support providers in more than 100 countries. These providers participate in a reverse-auction bidding process. You submit a problem and select a service option, either a spot transaction or a long-term contract, from numerous providers. Solutions can range from figuring out why a printer won't print to providing ongoing support for an upgrade from Windows NT 4.0 to Windows 2000. Support options include live help, e-mailed solutions (turnaround time is usually 24 hours), and links to self-help. Desktop sharing, which gives a technician access to a user's system, can enhance the process.

"The customer gets a portfolio of service providers based on the product, the time of day, the industry, and the experience," says Anthony Lye, NoWonder's CEO. Even if you get support from seven or eight providers, you still get only one bill and one incident report. At press time, NoWonder was beta-testing a free service. Its fee-based enterprise was expected to be operative in the second half of April.

Another support business, all.com, puts small businesses in touch with online support staff certified to Dell expertise levels. You download diagnostic and repair software from Motive Communications, and your system delivers information about its configuration and problems. The software queries the system and provides information such as the right part for a fix or a proper IRQ setting.

All.com was also in beta at press time and had not yet established pricing. But CEO Jeffrey R. Tarr says that when the company does begin charging, it will offer a money-back guarantee.

If you have several locations or provide help-desk functions to your own customers, UniPress Software's FootPrints 4.0, a Web-based issue- and problem-tracking system, may be the right solution. FootPrints offers a Web- and e-mail-based knowledge base. Employees and customers can enter issues or access the knowledge base for solutions from any location. FootPrints requires an NT Server or NT Workstation. The price is $2,995 for a server and three user licenses, and $795 for each additional license.

The quality of tech support often depends on the technician assigned to the problem. PC Pitstop ***(www.pcpitstop.com)***, a free service, has eliminated this variable by replacing the tech-support person with an expert system. Using downloadable autofix software, PC Pitstop detects the problem and either fixes it automatically or offers advice on how to fix it.

Still, even ardent advocates admit online support has limitations. "Remote support only works well when your PC is in good enough shape to connect to the Internet, and your problem isn't too critical," says Dave Methvin, founder of PC Pitstop. "When real disaster strikes, such as a trashed hard disk, there's nothing like having someone physically there to help you with issues like data recovery. If you're going to pay for support, you may be better off working with a local group that can help you with both kinds of support scenarios." ▼

ILLUSTRATION BY TIM COOK

E-SERVICES

Priceless Web Pages

BY JOHN MCCORMICK

You can't beat the price of these three e-commerce Web hosts.

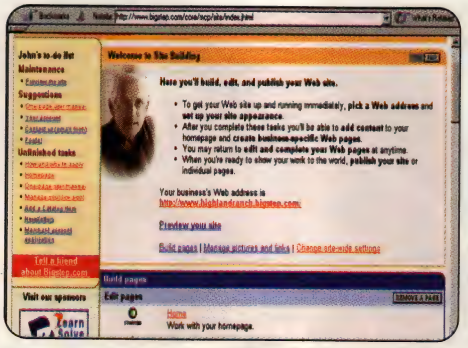
HOW MUCH SHOULD IT COST YOU TO RUN YOUR ONLINE STORE EACH month? How about nothing? That's just what a handful of ASPs are charging to host e-commerce sites. Two of these services, freemerchant.com and OhGolly.com, generate revenues by posting ads on your site. Another, Bigstep.com, makes its money by selling additional services, such as merchant accounts and mailing-list management.

OHGOLLY.COM

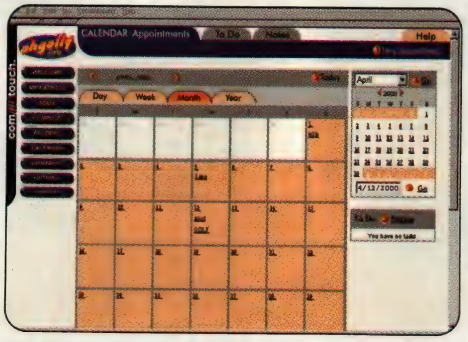
If you're familiar with a browser and know what you want on your page, you can design and launch a business Web page on OhGolly.com in less than 30 minutes. Here's what you get for no money: 15MB of storage for a multipage site, basic online page-design tools, a 100-item catalog, a shopping cart, a guest book, a special-events calendar, and an unlimited number of e-mail accounts with 3MB of message storage space.

If you don't want to subject your customers to banner ads, $9.95 per month or $99 per year buys you a banner-free site. Add $10 per month or $100 per year (plus InterNIC's $70 fee) for unique domain-name hosting *(www.yourcompanyname.com)*. For $9.95 a month or $99 per year, OhGolly will submit your site to more than 400 search engines each month. Merchant account fees, through Cardservices International, depend on variables such as your credit rating. The monthly gateway fee for triple-encrypted code is $20, and 24/7 live customer support costs $10 per month.

The user-friendly site, with its 1950s-style clip art, is a great way to gauge the viability of your e-commerce business. Using the simple menu choices, you can produce a clean and pleasing page. It will be basic, but customers don't often complain about a site being too fast to load and too easy to navigate.



Bigstep.com walks you through its setup process with well-designed menu and option screens and a to-do list.



OhGolly.com adds business-management tools such as this appointment calendar.

BIGSTEP.COM

Bigstep.com takes "free" to the next level by offering banner-free sites for nothing. Freebies include maps and directions to your business; customer surveys; e-mail newsletter tools; personalized customer greetings; FAQ, jobs-available, special-events, and press-information pages; and employee/management bios. There's no limit on the number of items you can include in your catalog.

Add-on services include mailing-list management, search-engine and bot submission, and discounted merchant accounts. The company says its average customer pays between $20 and $30 per month. Real-time credit-card transaction processing through Cardservices International costs $14.95 per month plus a 20-cent transaction fee. Bigstep.com saves its customers the application fee, which can cost hundreds of dollars.

The company guides you through the site-building process by providing templates you can customize with different fonts and colors. You choose most layout options simply by checking the design you prefer. A to-do list updates you on the design and management tasks you've yet to complete.

Bigstep.com makes it easy to get started, but customization takes some work. Over time, however, you can create a sophisticated online store. And you don't have to download any Java applets or know HTML to create or modify a page.

FREEMERCHANT.COM

Taking yet another approach to free e-commerce sites, freemerchant.com lets you earn revenue by displaying ads on your site. You get 50 percent of the ad fee, based on the number of click-throughs your site generated. In addition, a banner-exchange program lets you display your ads for free on other sites in exchange for displaying their ads on your site.

Even if you don't want any ads on your site, freemerchant.com is still free. You don't even have to get a merchant account through the service; you can use your existing account if you already have one. The company derives its revenue from commissions its partners pay when you buy from them, but you're under no obligation to buy anything.

Services include a secure shopping cart, store-building software, unlimited catalog size, e-mail, a shipping and tax calculator, a coupon creator, and tech support.

Store-building tools are basic and easy to use, with about 50 templates to choose from. Other tools include an automatic inventory checker and a site-traffic logging system. You can import catalog data from popular spreadsheet and database programs, and export invoice data from Intuit QuickBooks. Freemerchant.com will also list your site with popular search engines. You even get to auction off slow movers at eBay. ▼

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AST	**32M**	**64M**	**128M**
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MANHATTAN DAND PRO 6200	55	105	135
COMPAQ	**32M**	**64M**	**128M**
DESKPRO 2000/4000 (SD)	45	105	145
DESKPRO 6000 6233,6300(SDE)	55	105	145
DESKPRO XL 6150/6200 (DIM)	45	105	179
PROLIANT 1500,6/200 FLEX (DIM	45	119	179
PROLIANT 2500,2500R (DIMM)	45	119	179
PROLIANT 486 SERIES	45		
DELL	**32M**	**64M**	**128M**
DIMNSION XPS D 233/266/300 (NEW)	56	119	169
DIMNSION XPS P166-200 (ALL)	56		
DIMENSION XPS R450 (NEW)		99	179
DIMENSION XPS H233,266	54	99	
DIMENSION XPS P100C,120C ED	54	75	
OPTIPLEX GXA PII 233,266,300(SDE)	65	105	169
OPTIPLX GXI,GX PRO200 (DIMM)	62	105	169
OPTIPLEX GL,GM,GMT, (ED)	51	95	
OPTIPLX GS,GXL,GXMT(ED)	51	95	
[illegible]	**32M**	**64M**	**128M**
G6-350 450 / G450XL (NEW)	55	105	169
E-1000,E-3000,E-3100(SD)	55	105	149
E-5000-2266,2300 (SDE)	65	105	149
HEWLETT PACKARD	**32M**	**64M**	**128M**
BRIO 8000,8100 SERIES (ED)	55	105	
KAYAK XA PII 233,266,300(NEW)	55	105	145
KAYAK XU/XW PII 233,266,300(SDE)	55	105	169
PAVILLION 5010-7170 ED	55	75	
NETSERVER LH + 5/133/166	55	99	169
NETSERVER LH PRO PRO/200	55	99	169
NETSRVR LX PRO/LXE 6/166,6/200	55	99	169
VECTRA 500 SERIES (ED)	55	105	
VECTRA VL4 5/150,5/166	55	105	
VECTRA XA 6/180, 6/200	55	105	
IBM	**32M**	**64M**	**128M**
APTIVA C AND S SERIES	49	105	
PC 330 6576; 700,730 750 SERIES	49	105	
PC 300 XL SERVER	55	95	169
PC SERVER PR0 330 PRO 325;180/200	55	95	169
INTELLISTATION Z PRO 2D,3D	62	95	169
PS/1 ADVISOR/ESSENTIAL/WILLOW	62		
PS/VALUEPOINT486 (ALL):	45	79	
MICRON	**32M**	**64M**	**128M**
MILLENNIA XKU PII AND PRO 2	49	105	179
VETIX EL 1000N,2000N & LXI	49	95	169
MELLENNIA 350-400 SERIES (NEW)	59	109	179
POWERDIGM XLI & XSU SERIES	49	95	169
NEC TECHNOLOGY	**32M**	**64M**	**128M**
DIRECTION SPL 233,266,300(SD)	59	99	145

SERVER MEMORY

(Server Processor Modules Available)

	64M	128M	256M
DELL POWEREDGE SERVER 2300/4300	99	198	495
DELL POWEREDGE SERVER 4100/6100	99	198	495
DELL POWEREDGE SERVER 6300		295	495
HP E50 SERVERS	105	245	CALL
IBM NET FINITY 3000/3500	99	245	CALL
COMPAQ PROSIGNIA 200/1600/R	110	239	495
COMPAQ PROSIGNIA 720(ECC)	105	195	
COMPAQ PROSIGNIA 740 (REG ECC)		195	495
COMPAQ PROLIANT 3000	119	221	495
GATEWAY ALR SERVER 7000 SERIES	105	239	CALL
GATEWAY ALR SERVER 8000 SERIES	97	209	495
GATEWAY ALR SERVER 9000 SERIES	119	285	495
MICRON EVEREST SERVER / PRO	119	221	CALL
MICRON NET FRAME 3101	99	195	495
MICRON NET FRAME 6200	119	285	495

WORKSTATION MEMORY

	64M	128M	256M
DELL PRECISION WKSTN 410/610	109	239	595
DELL PRECISION WKSTN 400 PII 266-300		219	CALL
MICRON EVEREST AND EVEREST PRO	95	219	CALL
COMPAQ PROF WK AP400/AP 500	109	239	559

SDRAM PC-100

SDRAM 64x72 -8ns 3.3v ecc registered	512MB	999
SDRAM 32x72 -8ns 3.3v ecc registered	256MB	469
SDRAM 16x72 -8ns 3.3v ecc	128MB	219
SDRAM 8x72 - 8ns 3.3v ecc	64MB	155
SDRAM 32x64 -8ns 3.3v	256MB	439
SDRAM 16x64 -8ns 3.3v	128MB	189
SDRAM 8x64 -8ns 3.3v	64MB	109

SDRAM 66MHz

SDRAM 32x72 -10ns 3.3v ecc	256MB	439
SDRAM 16x72 -10ns 3.3v ecc	128MB	209
SDRAM 8x72 - 10ns 3.3v ecc	64MB	139
SDRAM 32x64 -10ns 3.3v	256MB	419
SDRAM 16x64 -10ns 3.3v	128MB	169
SDRAM 8x64 -10ns 3.3v	64MB	99
SDRAM 4x64 -10ns 3.3v	32MB	45

168 Pin Dimm

32X72-60 EDO-ecc 3.3v BF/UBF	(2565MB)	395/365
16X72-60 EDO-ecc 3.3v BF/UBF	(128MB)	225/215
8X72-60 EDO-ecc 3.3v BF/UBF	(64MB)	109/105
4X72-60 EDO-ecc 3.3v BF/UBF	(32MB)	55/52
32X64-60 EDO 3.3v UBF	(256MB)	385
16X64-60 EDO 3.3v UBF	(128MB)	210
8X64-60 EDO 3.3v UBF	(64MB)	99
4X64-60 EDO 3.3v UBF	(32MB)	55

72-Pin EDO/Non Parity Simms

SIMM 32x32-60 EDO	(128MB)	185
SIMM 16X32-60 EDO H	(64MB)	78
SIMM 8X32-60 EDO	(32MB)	51
SIMM 4X32-60 EDO	(16MB)	29
SIMM 2X32-60 EDO	(8MB)	14
FAST PAGE MODE (FPM) - NON-EDO:		
SIMM 32x32-60	(128MB)	225
SIMM 16X32-60 H	(64MB)	84
SIMM 8X32-60	(32MB)	51
SIMM 4X32-60	(16MB)	26
SIMM 2X32-60	(8MB)	17

72-Pin Parity Simms

Parity:		
SIMM 32x36-60	(128MB)	255
SIMM 16x36-60 H	(64MB)	131
SIMM 8X36-60	(32MB)	70
SIMM 8X36-70	(32MB)	70
SIMM 4X36-60	(16MB)	35
SIMM 4X36-70	(16MB)	35
SIMM 2X36-60	(8MB)	18
SIMM 2X36-70	(8MB)	18

H=High Density L=Low Density

30-Pin Simms

SIMM 16X9-60 (9-CHIP)	(16MB)	35
SIMM 4X9-60 (9-CHIP)	(4MB)	17
SIMM 4X9-70 (9-CHIP)	(4MB)	16
SIMM 4X9-80 (9-CHIP)	(4MB)	14
NON Parity:		
SIMM 16X8-60 (9-CHIP)	(16MB)	31
SIMM 16X8-70 (9-CHIP)	(16MB)	29
SIMM 4X8-60 (9-CHIP)	(4MB)	15
SIMM 4X8-70 (9-CHIP)	(4MB)	13

PRINTER MEMORY

BROTHER	**2MB**	**3MB**	**4MB**
HL-8D/8E/8V	75		115
HL-10V/10DV/10PS	69		99
HL-4/4PS/4V/4VE	75		115
HL-6/6T/6V	65		99
HL-630/631/641/645		55(1.5MB)	
HL-720/730		45(1.5MB)	
HL-660/960/1260	42(4MB)	65 (8MB)	
LASER/FAX MFC 3900ML			55(1.5MB)
4000ML/4500ML/5000ML LASER UPGRADE/CALL FOR MEM/FAX SIDEFAX 4550/6550/755065			85
Canon	**2MB**	**3MB**	**4MB**
LBP 430/860/1260			39
LBP 4SX	75		115
LBP 811/B/T	45		65
LBP-8SX	79		115
LBP-4/LITE PLUS	139		
EPSON	**2MB**	**4MB**	**5MB**
1500, 1000	59		
5000, 5200	55	95	
ACTION LASER II	69	89	105
EPL 6000	85	115	
EPL 7000	69		
EPSON	**8MB**	**16MB**	**32MB**
1100(4MB ONLY)/1600	55	69	95
HEWLETT PACKARD	**8MB**	**16MB**	**32MB**
HP 4000/5000N NEW		59	155
HP 4, 4M, 4SI	49	59	
HP 4P, 4MP, HP4V,5M,5N,5P,5SI	29	55	
HEWLETT PACKARD	**2MB**	**4MB**	**8MB**
HP4L, ML (1MEG ONLY)	$39		
HP 5L,5L-FS	35	43	69
HP550,C, 560,C (256K ONLY)	$29		
HPII/IID	45	65	
HPIII,IIIP, IIP	45	65	
PAINTJET XL300		65	85
IBM	**2MB**	**35MB**	**4MB**
4019	69	95	
4029/4037	39		55
4039/4079			45
LEXMARK	**8MB**	**16MB**	**32MB**
OPTRAL/LX/LXI/N/R/RX	25	45	69
WIN WRITER 200, 400, 600 (4MB $69.00)			
OKIDATA	**2MB**	**4MB**	
OKI 400	52		
OKI 400E/410E	69	109	
OKI 600E/610E	65	85 (5MG) 149 (17MG)	
OKI 810/830/840/850	79	CALL	
OKI 810E (NEW)		79	
Panasonic	**2MB**	**4MB**	**8MB**
KX 4410/4430	55	79	
KX 4420/4450I	65	99	
KX 4400/5400/4401	49	85	
KX 4440/5410	69	109	
KX-P 4450		85 (1MB)	
SP100	49	85	
KX-6500 (NEW)		55	
SHARP		**2MB**	**4MB**
JX9400/9600/9660/9700E		65	95
TEXAS INSTRUMENTS	**2MB**	**3MB**	**4MB**
MICROLASER SERIES	78	117	156
MICROLASER TURBO			89
MICROWRITER SERIES	75		
ML PWRPRO/12,ML PRO8	55 (4MB)		95 (8MB)

NOTEBOOK MEMORY

	16M	32M	64M
ACER	**16M**	**32M**	**64M**
730,,760C,760CX,780CX			
782,784,786,787,760I	75		
NUOVO 971,972,970DX,970	49	91	
PRO 950,,954,955,956,957	59	99	
LIGHT 350P ,356,358,359,361	59	99	
LIGHT MULTIMD 382,383,384	59	99	
AST	**16M**	**32M**	**64M**
ASCENTIA A 41, A42,A70	45	85	121
ASCENTIA J SERIES (KIT)	55	102	
ASCENTIA P SERIES (NEW)	59	102	
ASCENTIA 900, 910N,950N	65		
ASCENTIA 800, 810/N	65		
Canon	**16M**	**32M**	**64M**
NOTEJET 486C (BN100)			
NOTEJET 486 (BN22/BN32			
NOTEJET III/III CX	79		
INNOVABK 1100T	65	112	
IINNOVABK 10C/150C/175C			
IINNOVABK 350,360,475	75		
IINNOVABK 480, 490	75		
IINNOVA 486NX			
COMPAQ	**16M**	**32M**	**64M**
ARMADA 6500, 7400, 7800 (NEW)		89	115
ARMADA 1100,1500,7700 SER	45	89	115
ARMADA 4100	45	89	115
CONCERTO 425/433	79		
CONTURA 4/25,C,CX	85		
CONTURA 400C,410C,420	85	(129 24MG)	
CONTURA AERO 4/33C	89		
LTE ELITE 4/25/C, 4/75/C	71		
LTE 5000,5100,5200,5300,540	65	85	116
PRESARIO 1010, 1020,1070,	65	85	
PRESARIO 1210, 1610,1680	65	85	116
DELL	**16M**	**32M**	**64M**
INSPIRON 7000 SERIES	49	78	114
INSPIRON 3000 M200, M233	49	78	114
LATITUDE CP M166T,M233XT,	79	99	
LATITUDE LM P100SD,P133S	79	99	
LATITUDE LX475D,4100D/T	69		
LATITUDE 433/C, CX, 425	79		
LATITUDE XP 4100CX,450C/CX	69		
LATITUDE 433M, MX, MC,	75		
EPSON	**16M**	**32M**	**64M**
ACTION NOTE 500C		(4MB $35.00)	
ACTION NOTE 650/660C	79		
ACTION NOTE 890,895,910	69		
FUJITSU	**16M**	**32M**	**64M**
LIFEBOOK 500,600,700 TX SER	59	85	
LIFEBOOK 400,500,600 SER	65	85	
MILAN,MONTECARLO,MONT	65	85	119
[illegible]	**16M**	**32M**	**64M**
COLORBOOK	95		
HANDBOOK	69		
LIBERTY	69		
SOLO 3100 LS (NEW)	49	95	135
SOLO S90,S120,V75)	55	99	
SOLO 2100, 2200 (NEW)	89	109	
SOLO 2300 (NEW)	65	89	109
SOLO 9100 SERIES (NEW)	65	89	109
HEWLETT PACKARD	**16M**	**32M**	**64M**
OMNIBOOK 2000	62	89	129
OMNIBOOK 4000 C/CT	62	89	
OMNIBOOK 5000,5500 CTS	62	89	129
OMNIBOOK 5700TX (MMX)	62	89	129
HITACHI	**16M**	**32M**	**64M**
C-SERIES NOTEBOOK	65	99	
E SERIES	65	102	
M SERIES	65	102	
M-X MMX SERIES NOTEBOOK	65	102	
VISIONBK PLUS 4140,4150,4360	75	102	
VISIONBK PRO 7340,7360,756049	75	102	
IBM	**16M**	**32M**	**64M**
THINKPAD 340			
THINKPAD 350, 350C	69		
THINKPAD 355, 355C.360CS	79		
THINKPAD 365C,CS,CD,E,ED			
THINKPAD 365 X,380,385D	45	79	
THINKPAD 510/CS,(500 8MG MAX)	49		
THINKPAD 560 (NEW)	45	79	
THINKPAD 560E	45	79	109
THINKPAD 700/C, 720/C			
THINKPAD 701 BUTTERFLY	45		
THINKPAD 750/755 CS DX	79		145
THINKPAD 760C (NEW)	79	105	
THINKPAD 760 E,EL,ELD	55	85	109
THINKPAD 770 (SD)	59	85	109
MICRON	**16M**	**32M**	**64M**
MILLENNIUM TRANSPORT	45	109	
MILLENIUM TRANSPORT XPE	45	109	
MILLENIUM TRANSPORT MRX P	45	109	
MIDWEST MICRO	**16M**		
ELITE SNDBOOK 486/486 I I	85		
ELITE SNDBOOK PLUS	85		
NEC	**16M**	**32M**	**64M**
VERSA E/M/V/P	55	119	
VERSA S, 2000, 2200C	45		
VERSA 2400,2405,2435	45		
VERSA 2600	49	95	115
VERSA 4000	55	85	
VERSA 6000H,6030H	55	85	
VERSA 6050MH,MHX P150	55	85	105
VERSA 6200MX P166 MMX	49	75	109
SHARP	**16M**	**32M**	**64M**
3010,3050	69		
3020,3060 PENTIUM	69		
3030, 3040, 3070	75	119	
7700/7750/8150,8650,8660	79		
8700,8800,8900	85		
9000/9030/9020/9050	79	119	
9040/9070/9080	69	119	
WIDENOTE	49	75	
SONY	**16M**	**32M**	**64M**
VAIO PCG-705C,707C,717C,719C	45	65	129
TEXAS INSTRUMENTS	**16M**	**32M**	**64M**
TI 4000E, 4000M	279		
TI 5000,5100,5200,5300	89		
TI 6020,6030,6050,6160	75	95	
TI EXTENSA 455 SERIES (NEW)	79		
TI EXTENSA 510/515/550/56059	89		
TI EXTENSA 600,650,660SER49	99		

TOSHIBA	**32M**	**48M**	**64M**	**128M**
TOSHIBA 8000 (NEW)			149	CALL
TOSHIBA 100C/200/400/610	79			
710CD/720CDS/730/740	79		189	405
PROTEGE 650 CT,660 CDT	95		179	
SATELLITE 225,440,460	69	99	129	
TECRA 500/550/650/660	89	129		265
T1900,1900CT,1950,1960	95			
4500/4700/4800/4900	79	99		
T2100, T2150CDS/CDT	75		85 (24MG)	
PROTEGE 2400/3400/3600	69			

	16M	32M	64M
WINBOOK	**16M**	**32M**	**64M**
WINBOOK XL (NEW)	49	79	129
WINBOOK XP	59	99	
WINBOOK XP 5 (NEW)		99	
WINBOOK FX (NEW)	59	99	
ZENITH	**16M**	**32M**	**64M**
Z-STAR EX	49		
Z-NOTE FLEX/ES/EX/GT	49		
Z-NOTE MX	55		
Z-NOTE 6000	59	119	
Z-NOTE 6200	79	115	

NOTEBOOK HARD DRIVES

	2GB	4GB	5GB
AST			
ASCENTIA 800,810.ADVANTAGE NB.BRAVO NB	195	281	315
TOSHIBA			
SATELLITE 300CDS/CDT, 305CDS	195	281	315
SATELLITE 310CDS, 310CDT, 315CDS, 315CDT	195	281	315
T2400CS,T2400CT,2450CS,2450CT	195	281	315
T4500,4600,4700,4800,4900	195	281	315
PROTEGE T3400,T3400CT	195	281	315
TECRA 520CDT, 530CDT	195	281	315
TECRA 750CDT, 750CDTNT, 750CDM, 750DVD	195	281	315
TECRA 780CDM, 780CDMNT, 780DVD	195	281	315
COMPAQ			
CONCERTO 4/25, 4/33	195	281	315
CONTURA 4/25, 4/25CX, 4/25C	195	281	315
CONTURA 3/20, 3/25, 3/25C	195	281	315
CONTURA400,410,420,430 SERIES	195	281	315
CONTURA AERO 4/25, 4/33	195	281	315
LTE ELITE 4/50CX,4/75C,4/75CX	195	281	315
ARMADA 1100,1120,1125	195	281	315
ARMADA 1500 SERIES	195	281	315
PRESARIO 1010,1020,1030,1060,1065,1070,1075,1080	195	281	315
PRESARIO 1207, 1210, 1610, 1615, 1620	195	281	315
PRESARIO 1200 SERIES:1230, 1232	195	281	315
PRESARIO 1200 SERIES:1215	195	281	315
PRESARIO 1200 SERIES:1220, 1220ES	195	281	315
PRESARIO 1600 SERIES:1625, 1640	195	281	315
PRESARIO 1600 SERIES:1650, 1655	195	281	315
PRESARIO 1600 SERIES:1626	195	281	315
PRESARIO 1710 SERIES:1710SB	195	281	315
PRESARIO 1600 SERIES:1621, 1622, 1680, 168	195	281	315
CTX			
EZBOOK 5X86 SERIES	195	281	315
EZBOOK 700 SERIES	195	281	315
EZ 660CDT,EZ655CDT,EZ660CDT (PENT)	195	281	315
DEC			
HINOTE VP 520/120,525/120,535/133,545/150MMX	195	281	315
EPSON			
ACTIONNOTE 650, 650C, 660, 660C, 660CX	195	281	315
IBM			
THINKPAD 500, 510S	195	281	315
SHARP			
PC 8700,8800,8900	195	281	315
PC9000,9030	195	281	315
PC3010,3050	195	281	315
PC9040,9070	195	281	315
PC 9080 P133	195	281	315
TEXAS INSTRUMENTS			
TRAVELMATE 4000, 4000E	195	281	315
TRAVELMATE 4000M	195	281	315
TRAVELMATE 5000, 5100, 5200	195	281	315
TRAVELMATE 6020 P120 6030 P133, 6050 P150	195	281	315
TRAVELMATE 7060, 7063NT P166MMX	195	281	315
EXTENSA 600, 600CD, 605CD P120	195	281	315
EXTENSA 650, 650CD, 650CDT P133	195	281	315
EXTENSA 900, 900T, 900CDT P133	195	281	315
NEC			
VERSA 2400;CD, 2405;CD	195	281	315
VERSA 2630CD,2635CD,2650CD,2650CDT,2655CD,2655CDT	195	281	315
SHARP			
PC7700.7750	195	281	315
WINBOOK			
WINBOOK "XP, FX, XP5	195	281	315

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Pentium Pro 200 / 512K	$339
Pentium Pro 200 / 1MB	$414

AMD	
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BUILDING WEB COMMERCE

site promotion pays

by DAVE METHVIN

Use search engines and banner-exchange programs to draw shoppers to your site.

It's your worst nightmare. You throw a big party, and nobody shows up. Then you realize you forgot to mail the invitations. E-commerce is like that. Customers will not come to your store if they don't know it's there. You have to send out the proverbial engraved invitation to bring cyber shoppers to your store.

BE EASY TO FIND

The average online shopper starts by firing up a general search engine, such as AltaVista, Excite, or Yahoo, even though they aren't the best tools for the job. So it's important to make sure the general search engines rate your pages and rate them high. A typical search query returns dozens of pages of results; if your site isn't listed in the first few pages, you're going to lose sales to those that are.

Nearly every general search engine will list your site for free, but getting a good position in search results is, to some extent, a black art. Each search engine uses a different set of rules to decide how relevant your page is for a particular search request, so one set of rules will not guarantee good placement. Following a few simple guidelines, however, will better your chances.

First, for each major page on your site, especially the home page, pick a dozen keywords or phrases that best describe its content, keeping in mind how a visitor might enter search terms. Then, enter these keywords and phrases into a meta tag on each page on your site. You can create meta tags using just about any HTML editor. They look something like this:

```
<META NAME="description"
CONTENT="The best prices on
boating accessories!">
<META NAME="keywords"
CONTENT="oars, boats, boat trailer,
water skis, masks, snorkeling">
```

To improve your odds of having at least one of your pages show up in a search, don't use the same description and keywords for each page. If you need more help getting your pages to rank near the top, check out FirstPlace Software's WebPosition Gold *(www.webposition.com)*.

The final step is to get your pages into the major search engines' indexes. You can do this for free by going to each search engine and locating its page for submitting a URL. CrossLinkz's Search Engines page *(www.crosslinkz.com/promotion/submit.htm)* offers links to the Add URL forms of nine top search engines. Conspicuously absent is Yahoo, the top search engine according to rating service Media Metrix. Yahoo's add-URL page is at *docs.yahoo.com/info/suggest*.

To save time and increase exposure, you can let a service do the legwork for you. For $59 a year, SubmitIt *(www.submit-it.com)* will submit your site to more than 400 search engines, including many specialty services, and perform a monthly check to ensure your site shows up in their listings. NetCreations offers a free but unsupported submission service at *www.netcreations.com/postmaster*.

VIRTUAL YELLOW PAGES

Many online shoppers skip general search engines and go right to shopping services or shopbots. (See "Battle of the Bots" in the May issue, p. 180.) Most of these services charge either to crawl your site or to list your product information, but few publish rates on their sites—you usually have to speak with a salesperson.

These services can drive a lot of traffic to your site, but shoppers who use them are motivated primarily by price. If your prices aren't the lowest, you could have a tough time making the sale. In addition, if your products are unique or of interest to smaller targeted groups, the large shopping sites may not provide the traffic to justify a listing, or might list your products in a broad or unrelated category. You might be better off advertising on Web sites targeted to your audience.

ELECTRONIC BILLBOARDS

Advertising is alive and well on the Web with some new wrinkles. For instance, you don't even have to pay to advertise if you sign up for a banner-exchange program. Through this quid pro quo arrangement, you display other sites' ads on your site, and they display yours on theirs. For a long list of banner-exchange programs, search Yahoo for "banner exchanges."

One of the best-known banner-exchange programs is LinkExchange, now part of Microsoft bCentral *(www.bcentral.com)*. This well-established program offers a wide variety of sites. But you should also consider smaller banner networks if their demographics align well with your products. Examples include Banner Women for

ILLUSTRATION BY TIM COOK

women-oriented sites, Disney Banner Network for Disney-related sites, and the Raleigh Banner Exchange for businesses in the Raleigh-Durham, N.C., region.

Most programs give you control over the types of sites that display your ads. This way, you won't waste your banners on sites that don't reach your customers, and you can prevent your ads from appearing on sites with inappropriate content. Conversely, larger networks give you some control over the type of ads you'll display on your site. While your customers may still see an ad you wouldn't have approved yourself, banner-ad services do a decent job of filtering ads for offensive content.

The downside of banner-exchange programs is they often don't give you a lot of control over where and how frequently your ad appears. It might be worth the money to advertise directly on sites that target your potential customers. But finding your way through the arcane world of online advertising is a challenge. You usually can't order advertising through a simple online Web form; you have to contact the company by phone or e-mail, then speak with a salesperson.

CUSTOMER RELATIONS

After you attract customers to your site and get them to buy something, your next challenge is to get them to come back and buy some more. Handle their orders well, and you'll improve your chances of a return visit.

You'll want a phone number for order queries, but it's more efficient to accomplish as much as possible through e-mail. Send an e-mail to confirm an order and another when you ship the order. Include the carrier's tracking number, along with instructions on how to track the shipment at the carrier's site. Respond to e-mailed order queries quickly, within an hour or two, if possible. That way, a customer won't feel the need to make a telephone call.

Another way to keep customers coming back is to remind them you're still around. E-mail newsletters are perfect for staying in touch with customers, but use them judiciously. Unsolicited e-mail, or spam, can ruin a company's reputation. Offer visitors an opportunity to sign up for your newsletter on your Web site, and include an unsubscribe option.

If all you include in your newsletter is "this month's specials," expect a lot of subscribers to leave the list quickly. Your customers want to know what's on sale, but you need to offer more than that. If you sell gardening products, for instance, include a list of things gardeners should be doing this month, or tips on how to eliminate a common garden pest. A great reference book for pointers on how to write a newsletter is *Poor Richard's E-mail Publishing* by Chris Pirillo (Top Floor Publishing).

Getting your site into search-engine listings and finding the right places to advertise pays off, but it takes time. Traffic will build as more search engines find your site. Be sure to analyze your site's traffic reports. Most traffic-analysis packages tell you the page a visitor was on before coming to your site. If you know you put a banner ad on a particular site, you'll know that referral resulted from your ad. If the visitor came from a search engine, the software usually tells you which search engine it was and which keywords the visitor used. With this information, you can concentrate your efforts where they're most effective. ▼

NETWORKABLE

Windows 2000 Is Open for E-Business

BY DAVID S. LINTHICUM

Improved availability, scalability, and manageability make this NT successor a sturdy platform for integrating the Internet into your business.

Windows 2000 was clearly built with the Internet and e-commerce in mind. Its improved scalability, security, and fault tolerance let you build and grow your e-business, and ensure your site is up and running at all times. Its virtual-private-network (VPN) support, remote-connectivity solutions, and DNS integration let you use the Internet to connect not only your remote employees, but your customers and business partners as well.

Windows 2000 is actually the next generation of Windows NT, which dominates the business market at the server level. The server edition of Windows 2000 comes in three flavors: Server, Advanced Server, and Datacenter Server. The client version is Windows 2000 Professional.

Windows 2000 is a step closer to Microsoft's vision of providing a common operating system for all clients and servers. Its industrial-strength directory service, Active Directory, finally embraces, rather than fights, integration with the Internet. Additional e-commerce tools include better support for VPNs and dynamic clustering capabilities that support high availability and scalability.

E-COMMERCE FEATURES

Like Windows NT 4.0 Enterprise Edition, Windows 2000 Advanced Server supports up to eight-way symmetrical multiprocessing (SMP) and 8GB of memory. It works well for both application processing and HTTP services. But if you need more power, opt for Datacenter Server. It supports 32-way SMP and 64GB of memory.

The real story, however, is not SMP, but clustering. A cluster is a group of connected computers that run a common set of applications. The idea is to reduce downtime caused by hardware or software failure, which to an e-commerce site can mean missed sales and lost customers. To accomplish this, the operating system offers a high degree of availability, scalability, and manageability.

Availability: Because applications can be distributed over more than one computer, if one goes down, the others take over.

Scalability: As your business grows, you can add more computers to the cluster.

Manageability: The cluster provides a single point of control, which can be remote, so administrators can manage the system easily.

Clustering is nothing new, but Microsoft's support for it is. Advanced Server and Datacenter Server offer two clustering technologies: Cluster Service and Network Load Balancing (NLB).

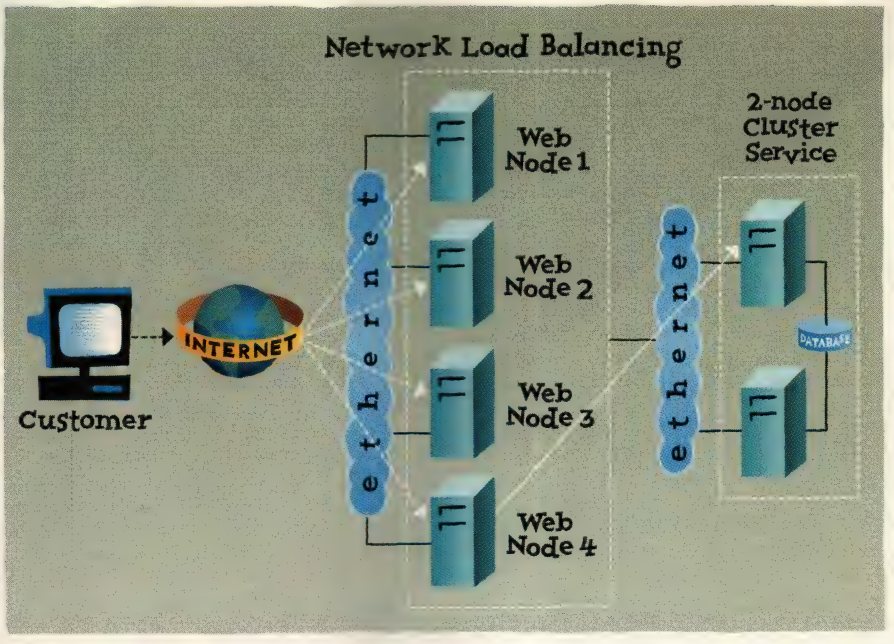
Cluster Service supports two connected servers (nodes) in Advanced Server and four in Datacenter Server. It's intended to provide fail-over support for databases, messaging systems, and file and print services. Cluster Service is ideal for ensuring the availability of database applications that act as data stores for e-commerce sites. If a hardware or software failure occurs on one node, the applications running on that node migrate to the surviving node and automatically restart, with no data loss during fail-over.

If you're deploying an intranet, an extranet, and hosted applications, you need a

plan for handling heavy traffic. NLB distributes incoming Internet Protocol (IP) traffic across a cluster of up to 32 nodes, enhancing the availability and scalability of Internet server-based programs such as Web servers, streaming media servers, and Terminal Services. As your traffic increases, you can add NLB clusters one server at a time. Web servers clustered with NLB ensure less than 10 seconds of fail-over time. NLB also enables hot swapping, so you can take down and remove servers without interrupting service. Hot swapping not only eliminates server downtime, but also allows you to perform upgrades and maintenance without disrupting your customers' buying or browsing capabilities.

NLB uses a simple redirection layer to send requests to the Web server with the least activity. This is similar to the popular round-robin technique used by high-traffic Web sites, whereby IP requests are routed evenly to a set of Web servers. With NLB, however, it's built into the server technology.

A combination of the two services works well. With Cluster Service on the back end handling databases, and NLB on the front end handling your Web server, you can create a highly scalable and available e-commerce site.



INTRANET/EXTRANET CAPABILITIES

Windows 2000 also offers improved intranet and extranet functionality. If you already have an intranet and an extranet, and you maintain a separate security environment for each, Windows 2000 lets you manage both from a single place, with features such as VPN support, remote-connectivity solutions, and DNS integration.

VPNs let clients connect securely to private servers over the Internet, encrypting communications between the client and the server. This lets you extend your intranet to remote employees, or your extranet to business partners, using the Internet as a simple connection between two points. VPNs are cost-effective because you can use an ISP instead of having to create your own private wide-area network.

The Windows 2000 Connection Manager Administration Kit lets you distribute e-mail attachments containing VPN client software configured for a particular VPN connection. Authorized users can install this software and create a secure connection over the Internet back to your company's secure server.

IPSec client software, part of the Windows 2000 VPN solution, securely connects the remote user to the corporate VPN server. IPSec VPN service encrypts TCP/IP packets using DES-type encryption and public-key encryption to establish authentication with the server. IPSec packets can be further encapsulated within Layer 2 Tunneling Protocol (L2TP) packets, available in most third-party VPN products.

Windows 2000's Certificate Services lets you create a certification authority for managing the software's public-key infrastructure (PKI). PKI allows the secure exchange of information across the Internet, extranets, and intranets. In addition, PKI verifies and authenticates the validity of the user involved in an e-commerce transaction. It also allows logon to a domain using smart cards.

If you're using older protocols, such as NetBEUI or IPX, L2TP can encapsulate those protocols within IPSec-encrypted TCP/IP packets. This allows those protocols to be passed over the Internet using native Internet protocols. You can manage your VPN infrastructure using standard VPN-management tools included with Windows 2000.

Remote Access Services (RAS) allows you to incorporate dial-in access to Windows 2000. Remote clients access the corporate intranet through a standard dial-up connection. If you've installed Active Directory, an ISP can use Remote Authentication Dial-In User Server (RADIUS), an access-control protocol deployed by Active Directory. RADIUS offers clients a single link to both the VPN and the Internet through a single login.

ACTIVE DIRECTORY

For managing users internally, Windows 2000 offers Active Directory, a huge improvement over Microsoft's existing network-directory solutions. But Active Directory is not for amateurs; it requires a lot of planning before its implementation. You need to consider migration from the existing NT directory service (WINS), which Active Directory replaces, and from other directory services, such as Novell's Network Directory Systems (NDS). What's more, Active Directory may have to interoperate with other directory services, exchanging directory information in real time with non-Microsoft technology—a tall order.

Like other directories, Active Directory is nothing more than an orderly mechanism for organizing resources on a network, be they users, servers, printers, or security parameters. Directories use databases to track these resources, allowing any application or user access to any resource on the network that's registered with the directory service. Most large companies already use directories, including Domain Name System (DNS), Novell's NDS, and X.500.

Within Active Directory, Windows 2000 Server domain names are DNS names, which make life much easier. For instance, if abccorp.com is the name of an Active Directory domain, it will also be the name of a DNS domain. And the user name—someone@abccorp.com—can be both an Active Directory user and an Internet e-mail address. The DNS server is responsible for resolving an Active Directory domain name and the identification of a directory server that serves the particular Active Directory domain.

Active Directory's native support for DNS has many advantages over the traditional

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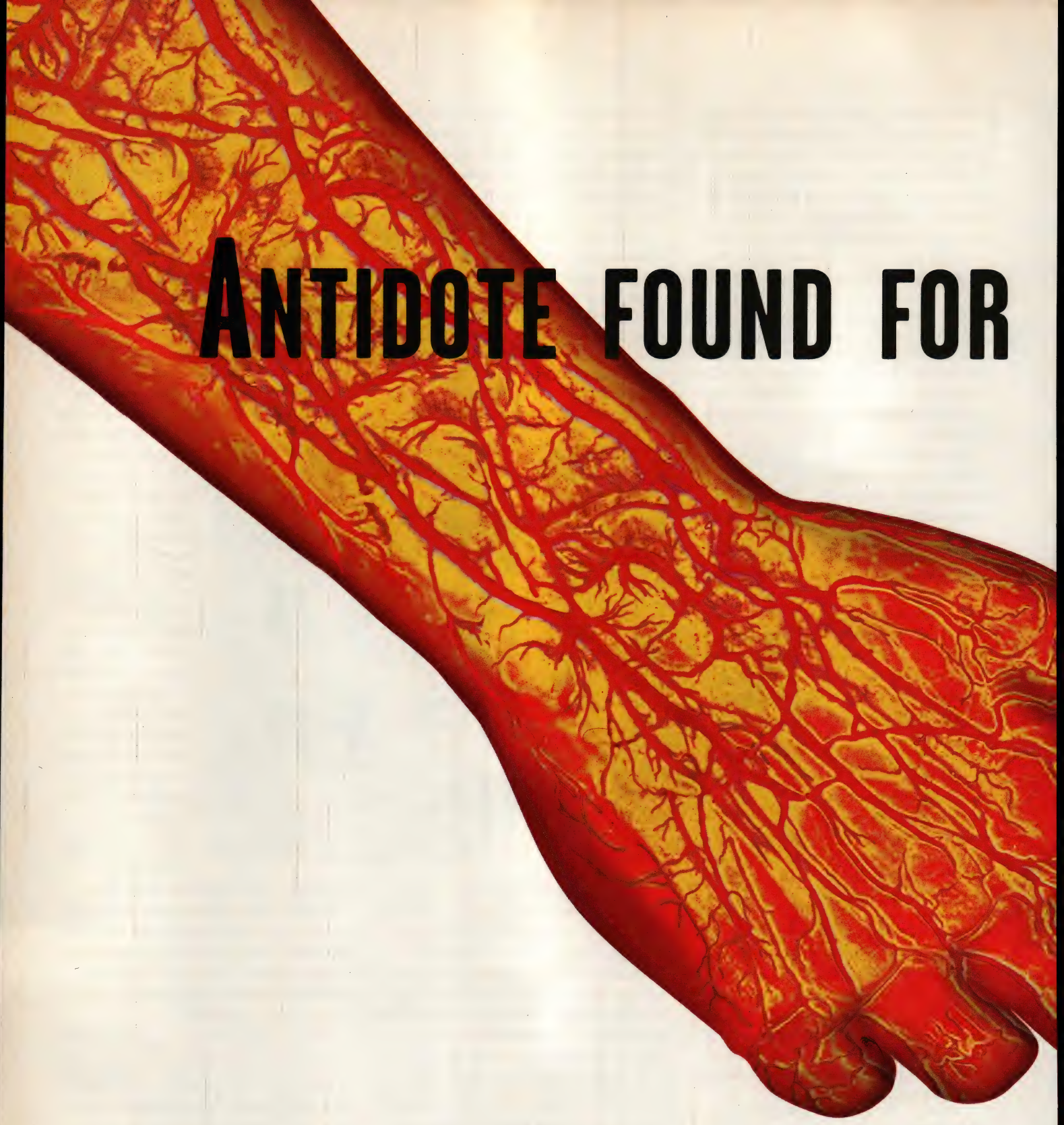

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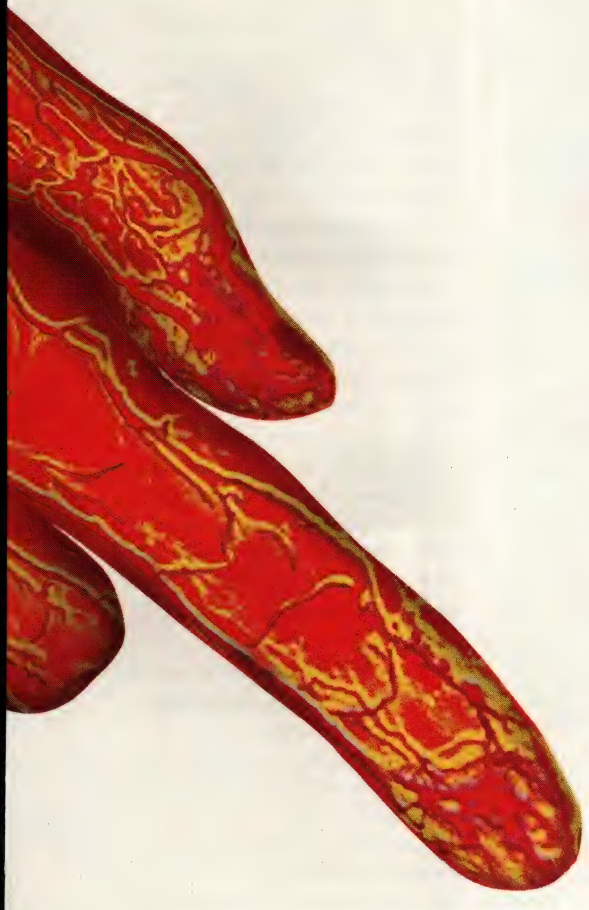

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(continued from page 249)

WINS directory system. First, WINS is proprietary, while DNS is an open standard. Plus, WINS replication doesn't offer any genuine security facilities. And finally, with the popularity of the Internet, most enterprises are already familiar with DNS.

Like other directories, Active Directory arranges domains in a hierarchy and sets up transitive trust relationships among all the domains in the tree. (See the diagram on this page.) You can further divide domains into organizational units that encapsulate users, groups, and network resources. The domains use standard DNS naming conventions.

When establishing a naming scheme for your Active Directory architecture, start with a naming standard, then create the DNS root domain. Next, create DNS zones, DNS server, and finally the DNS replication schemes within Active Directory. When selecting a DNS server, you have a few choices: using an existing DNS server, implementing Microsoft DNS exclusively, or implementing Microsoft DNS as a delegated subdomain.

It's never a good idea to mix and match various types of DNS servers when using Active Directory because the system relies on the Internet Engineering Task Force's RFC standard, a feature that's yet to become a part of the official DNS standard. (Microsoft is attempting to get it adopted.) Microsoft has built many yet-to-be-accepted features into its product, and you could easily get into trouble if you mix non-Microsoft DNS with Microsoft DNS. When upgrading to Active Directory, your easiest path is to select the DNS server that's part of Windows 2000 Server.

Active Directory can integrate with existing directory standards, including DNS and LDAP. It uses a hierarchical architecture and changes the existing Windows primary and backup domain controller with a peer model, so the user can turn any server into an Active Directory domain controller. A new domain controller can stand alone, or replicate directory information within an existing domain.

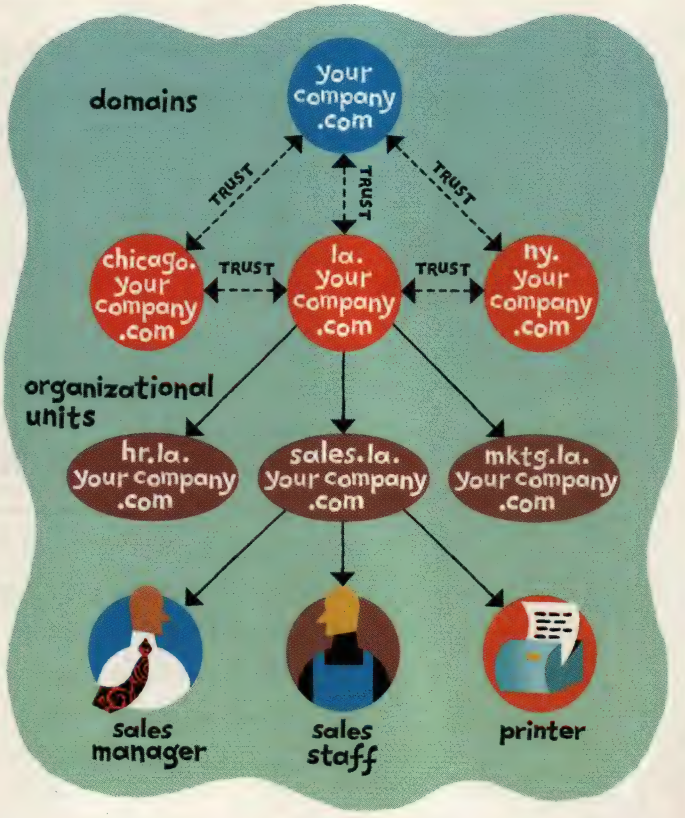
If you're a current Windows NT 4.0 shop and you want to use Active Directory, you have a choice of operating in either mixed or native mode. Mixed mode means you're running legacy and Active Directory domains; native mode means you've taken the plunge and have gone all Active Directory.

A Windows 2000 domain controller can function in mixed mode, replicating information to NT 4.0 domains using the traditional flat file format. But if you're willing to upgrade all servers to Active Directory (and Windows 2000), your reward will be better performance and tighter integration with controllers. Keep in mind, however, that once you switch to native mode, it's difficult to switch back.

If you're using another directory service, such as NDS, there are ways to make both Active Directory and NDS work together, and to migrate network resource information from NDS to Active Directory.

If you do decide to use both Active Directory and NDS domains, you can opt for Microsoft's meta-directory tool, called DirSync, which lets you replicate information between the NDS and Active Directory databases in near real time. This tool is handy if you're supporting different departments that use a mixture of NDS and Active Directory, and need to coexist within the same enterprise and share the same logical directory information.

Migrating from NDS or other non-Microsoft directory services to Active Directory is a challenge and takes a great deal of planning. Microsoft provides a set of directory migration tools for this purpose. These tools let you move information from the existing NDS databases to Active Directory databases in increments. But it's your responsibility to remap the data from one database to another, and it's easy to make mistakes, such as loading the right data in the wrong place.



NETWORKABLE

WINDOWS 2000 AND YOU

Windows 2000 is a powerful platform, but it's also complex and requires a great deal of planning before you make the move. As more and more businesses integrate Internet functionality into their operations, both for e-commerce and business-to-business applications, Windows 2000 deployment could happen sooner than we think.

Clearly, Windows 2000 offers numerous advantages over existing Windows platforms, including scalability, flexible networking fault tolerance, Internet integration, and support for advanced application processing.

If you're in the business of building Web applications, Windows 2000's next-generation Component Object Model, COM+, is another important enhancement. Multimedia-content producers will appreciate Windows 2000's streaming-media support, which enables development and distribution of real-time presentations and rich multimedia content both internally and externally. This means full-screen video, CD-quality audio, and digital rights management.

Security improvements include digital "keys" for accessing selected data, and a single ID that permits access to individual systems and shared resources on the network, the Internet, or an extranet. Standards-based security services include flexible authentication, data encryption, flexible and secure network access, protection of VPNs using IPSec, secure transaction processing, and security extensions for the development platform (such as the CryptoAPI).

Windows 2000 is a step in the right direction for Microsoft, and it could be for you, too. ▼

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LINUX FOR BUSINESS

Linux Beats Windows

BY DAN COSTA

Trillian ships first for Itanium with help from the open-source community.

WHEN INTEL SHIPS ITS ITANIUM 64-BIT CHIP LATER THIS SUMMER, it will be the most sophisticated microprocessor available for workstations and servers. It is bound to draw the interest of IT managers running processor-intensive e-commerce applications. But right now, it doesn't do Windows.

Although Microsoft is feverishly porting its Windows 2000 operating system to this advanced platform, at press time the company had not even released a beta. As a result, all eyes are on Trillian, a new 64-bit version of Linux that is open-source and shipping right now.

Trillian is a triumph of open-source development, marking the first time many vendors have co-developed such a complex piece of software. First formed in June 1999, the Trillian Project includes Caldera Systems, Cygnus Solutions, Hewlett-Packard, IBM, Intel, Red Hat, SGI, SERN, SuSe, TurboLinux, and VA Linux. Although all staunch competitors, these software developers managed to stay on task and build a common code.

"I have never seen a more efficient way of doing code," says Eric Sindelar, business development manager and Trillian Project manager.

The Trillian source code was first released to developers on February 2 at LinuxWorld Expo in New York. At the time, only limited quantities of Intel's prototype Itanium processors were available. Trillian also marks the first time an open-source operating system was made available to developers before the launch of the chip it was built to run on.

"We delivered Itanium systems to the Linux developers before the launch," says Ronald Curry, director of IA-64 marketing at Intel. "This is something we've never done before, but the Linux community is different."

As one of the founding members of the Trillian Project, Intel has guided the code's development from the beginning and made sure that developers had access to prototype Itanium systems. Although Intel has made much of its fortune in the Windows environment, it sees a big role for Linux, particularly in the business-to-business sector.

"The growth in the demand for servers is tremendous, and the role of Linux is critical," Curry told the crowd at the release of the Trillian source code. "To ensure that we have plenty of software in place for Itanium, the Trillian Project comes into play. We needed a new instruction set to take us into the next century and give us headroom for the next 25 years."

The early release is by no means complete. Performance to date is slow, IA-32-bit support limited, and the interface extremely bare. But the early release gives developers a six-month lead to solve these problems. Perhaps more important, it gives the open-source crowd time to start finding bugs. (To get the latest Trillian source code, check out ***www.kernel.org.***)

When the Itanium processor ships early in the third quarter, Caldera, SuSe, and Red Hat will all have shipping versions of Trillian Linux. In fact, TurboLinux is already shipping a working version of Trillian-based Linux, albeit to a very small audience. Like with the 32-bit version of Linux, each developer will offer a customized OS based on the common source code. IBM, SGI, and HP are planning to sell Trillian-based servers by the end of the year.

Initially, Trillian will be used mostly in processor-intensive applications in the science, education, technical, and research markets. But if the code proves stable, it will quickly make inroads into the ISP, e-commerce, and workstation markets. In fact, Intel has already released a version of its Common Data Security Architecture (CDSA) for Trillian on its Web site to facilitate e-commerce applications.

But perhaps even more lasting than the software itself is the open-source process that developed it. "This is a paradigm shift for software development," says Curry. ▼

LINUX APPLICATIONS EXPAND

Aladdin Systems is currently beta-testing a Linux version of its popular Expander utilities. Aladdin Expander for Corel Linux and Red Hat Linux 6 will enable users to expand files downloaded from the Internet and receive e-mail attachments. The software is a command-line utility for expanding files in StuffIt, Zip, ARC, gzip, UUencode, BinHex, and MIME, among other formats. To download the beta, check out ***www.aladdinsys.com/expander/expander_linux-login.html.***

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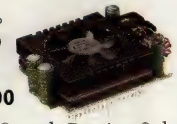

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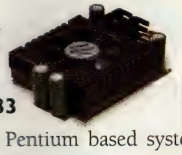

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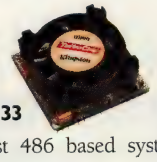

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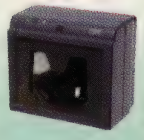

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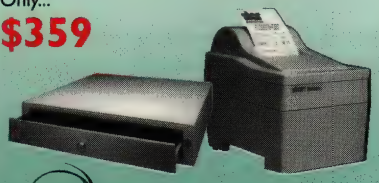

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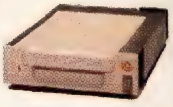

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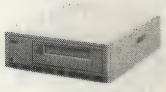

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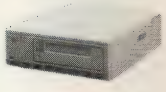

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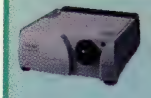

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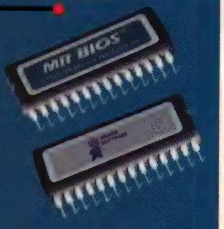

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- **Norton Anti-Virus 2000** w/CD, Full Ver. (10 Pack) $159
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- 4 x DIMM, up to 2GB, ATA/66
- ATX form factor, ca. 300x200mm
- SoftMenu II, hardware monitoring

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700MHz	$459
750MHz	$569
800MHz	$764
850MHz	$908
900MHz	$1028
950MHz	$1048
1000MHz	$1278

AOpen AK72 — $159

- VIA Apollo KX133 chipset
- AMD Athlon 550MHz-850+MHz
- 1 x AGP4X / 5 x PCI / 2 x ISA
- 3 x DIMM, up to 1.5GB, ATA/66
- ATX form factor, 305x244mm
- Hardware monitoring

Without CPU $159

With AMD® K7™ Athlon Processor:

600MHz	$389
650MHz	$418
700MHz	$469
750MHz	$579
800MHz	$774
850MHz	$918
900MHz	$1038
950MHz	$1058
1000MHz	$1288

Asus K7V — $159

- VIA Apollo KX133 chipset
- AMD Athlon 550MHz-1GHz
- 1 x AGP4X / 5 x PCI / 1 x AMR
- 3 x DIMM, up to 1.5GB, ATA/66
- ATX form factor, 305x245mm
- Hardware monitoring, AC97 sound

Without CPU $159

With AMD® K7™ Athlon Processor:

600MHz	$389
650MHz	$418
700MHz	$469
750MHz	$579
800MHz	$774
850MHz	$918
900MHz	$1038
950MHz	$1058
1000MHz	$1288

SOYO K7-AIA — $169

- AMD 751 "Irongate" chipset
- AMD Athlon 550MHz-750+MHz
- 1 x AGP2X / 5 x PCI / 2 x ISA
- 3 x DIMM, up to 768MB, ATA/66
- ATX form factor, 305x210mm
- Hardware monitoring

Without CPU $169

With AMD® K7™ Athlon Processor:

600MHz	$399
650MHz	$428
700MHz	$479
750MHz	$589

TYAN TRINITYS2380 — $139

- VIA Apollo KX133 chipset
- AMD Athlon 550MHz-1GHz
- 1 x AGP4X / 6 x PCI / 1 x ISA
- 3 x DIMM, up to 768MB, ATA/66
- ATX form factor, 305x240mm
- Hardware monitoring, AC97 sound

Without CPU $139

With AMD® K7™ Athlon Processor:

600MHz	$369
650MHz	$498
700MHz	$449
750MHz	$559
800MHz	$754
850MHz	$898
900MHz	$1018
950MHz	$1038
1000MHz	$1268

SLOT 1 VIA CHIPSET MOTHERBOARDS

ABIT VT6X4 — $109

- VIA Apollo Pro133A/686A chipset
- Intel Pentium III 450-800+MHz
- 133 / 100 / 66 MHz FSB support
- 1 x AGP4X / 5 x PCI / 2 x ISA
- 3 x DIMM, up to 1.5GB, ATA/66
- ATX form factor, ca. 300x200mm
- SoftMenu II, hardware monitoring

Without CPU $109

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$338
550MHz, 100MHz FSB, 512K L2	$378
600MHz, 100MHz FSB, 512K L2	$508
600MHz, 100MHz FSB, 256K L2	$438
600MHz, 133MHz FSB, 256K L2	$508
667MHz, 133MHz FSB, 256K L2	$538
700MHz, 100MHz FSB, 256K L2	$658
733MHz, 133MHz FSB, 256K L2	$734
750MHz, 100MHz FSB, 256K L2	$768
800MHz, 133MHz FSB, 256K L2	$938

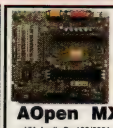
Asus P3V4X — $109

- VIA Apollo Pro133A/596B chipset
- Intel Pentium III 450-800+MHz
- 133 / 100 / 66 MHz FSB support
- 1 x AGP4X / 6 x PCI / 1 x ISA
- 4 x DIMM, up to 2GB, ATA/66
- ATX form factor, 305x192mm
- Hardware monitoring, AC97

Without CPU $109

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$338
550MHz, 100MHz FSB, 512K L2	$378
600MHz, 100MHz FSB, 512K L2	$508
600MHz, 100MHz FSB, 256K L2	$438
600MHz, 133MHz FSB, 256K L2	$508
667MHz, 133MHz FSB, 256K L2	$538
700MHz, 100MHz FSB, 256K L2	$658
733MHz, 133MHz FSB, 256K L2	$734
750MHz, 100MHz FSB, 256K L2	$768
800MHz, 133MHz FSB, 256K L2	$938



AOpen MX 64 — $89

- VIA Apollo Pro133/686A chipset
- Intel Pentium III 450-800+MHz
- 133 / 100 / 66 MHz FSB support
- 1 x AGP2X / 3 x PCI
- 3 x DIMM, up to 768MB, ATA/66
- microATX form factor, 244x220mm
- AC97 sound

Without CPU $89

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$318
550MHz, 100MHz FSB, 512K L2	$358
600MHz, 100MHz FSB, 512K L2	$488
600MHz, 100MHz FSB, 256K L2	$418
600MHz, 133MHz FSB, 256K L2	$488
667MHz, 133MHz FSB, 256K L2	$518
700MHz, 100MHz FSB, 256K L2	$638
733MHz, 133MHz FSB, 256K L2	$714
750MHz, 100MHz FSB, 256K L2	$748
800MHz, 133MHz FSB, 256K L2	$918

FIC KA 31 — $89

- VIA Apollo Pro133A/686A chipset
- Intel Pentium III 450-800+MHz
- 133 / 100 / 66 MHz FSB support
- 1 x AGP4X / 3 x PCI / 1 x ISA
- 3 x DIMM, up to 768B, ATA/66
- microATX form factor, 244x226mm
- Hardware Monitoring

Without CPU $89

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$318
550MHz, 100MHz FSB, 512K L2	$358
600MHz, 100MHz FSB, 512K L2	$488
600MHz, 100MHz FSB, 256K L2	$418
600MHz, 133MHz FSB, 256K L2	$488
667MHz, 133MHz FSB, 256K L2	$518
700MHz, 100MHz FSB, 256K L2	$638
733MHz, 133MHz FSB, 256K L2	$714
750MHz, 100MHz FSB, 256K L2	$748
800MHz, 133MHz FSB, 256K L2	$918

Tyan Trinity 400 S1854S — $109

- VIA Apollo Pro133A/596B chipset
- Intel Pentium III 450-800+MHz
  Intel Celeron 266-533MHz
- 133 / 100 / 66 MHz FSB support
- 1 x AGP4X / 6 x PCI / 1 x ISA
- 3 x DIMM, up to 768B, ATA/66
- ATX form factor, 305x220mm
- Supports both Slot1 and Socket370 CPUs

Without CPU $109

With Intel Pentium III Processor

500MHz, 100MHz FSB, 512K L2	$338
550MHz, 100MHz FSB, 512K L2	$378
600MHz, 100MHz FSB, 512K L2	$508
600MHz, 100MHz FSB, 256K L2	$438
600MHz, 133MHz FSB, 256K L2	$508
667MHz, 133MHz FSB, 256K L2	$538
700MHz, 100MHz FSB, 256K L2	$658
733MHz, 133MHz FSB, 256K L2	$734
750MHz, 100MHz FSB, 256K L2	$768
800MHz, 133MHz FSB, 256K L2	$938

SLOT 1 - INTEL CHIPSET MOTHERBOARDS

AOpen AX 6C — $179

- Intel i820 "Camino" chipset
- Intel Pentium III 450-800+MHz
- 133 / 100 MHz FSB support
- 1 x AGP4X / 5 x PCI / 1 x AMR
- 3 x RIMM, up to 2GB, ATA/66
- Supports RAMBUS PC600,700 & 800
- ATX form factor, 305x210mm
- Hardware monitoring, AC97 sound

Without CPU $179

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$408
550MHz, 100MHz FSB, 512K L2	$448
600MHz, 100MHz FSB, 512K L2	$578
600MHz, 100MHz FSB, 256K L2	$508
600MHz, 133MHz FSB, 256K L2	$578
667MHz, 133MHz FSB, 256K L2	$608
700MHz, 100MHz FSB, 256K L2	$728
733MHz, 133MHz FSB, 256K L2	$804
750MHz, 100MHz FSB, 256K L2	$838
800MHz, 133MHz FSB, 256K L2	$1008

AOpen AX 6CL — $149

- Intel i820 "Camino" chipset
- Intel Pentium III 450-800+MHz
- 133 / 100 MHz FSB support
- 1 x AGP4X / 5 x PCI / 1 x AMR
- 2 x RIMM, up to 1GB, ATA/66
- Supports RAMBUS PC600,700 & 800
- ATX form factor, 305x210mm
- Hardware monitoring, AC97 sound

Without CPU $149

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$378
550MHz, 100MHz FSB, 512K L2	$418
600MHz, 100MHz FSB, 512K L2	$548
600MHz, 100MHz FSB, 256K L2	$478
600MHz, 133MHz FSB, 256K L2	$548
667MHz, 133MHz FSB, 256K L2	$578
700MHz, 100MHz FSB, 256K L2	$698
733MHz, 133MHz FSB, 256K L2	$774
750MHz, 100MHz FSB, 256K L2	$808
800MHz, 133MHz FSB, 256K L2	$978

Asus P3C-E — $169

- Intel i820 "Camino" chipset
- Intel Pentium III 450-800+MHz
- 133 / 100 MHz FSB support
- 1 x AGPPro 4X / 5 x PCI / 1 x ISA
- 2 x RIMM, up to 1GB, ATA/66
- Supports RAMBUS PC600,700 & 800
- ATX form factor, 305x241mm
- Yamaha 744 sound

Without CPU $169

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$398
550MHz, 100MHz FSB, 512K L2	$438
600MHz, 100MHz FSB, 512K L2	$568
600MHz, 100MHz FSB, 256K L2	$498
600MHz, 133MHz FSB, 256K L2	$568
667MHz, 133MHz FSB, 256K L2	$598
700MHz, 100MHz FSB, 256K L2	$718
733MHz, 133MHz FSB, 256K L2	$794
750MHz, 100MHz FSB, 256K L2	$828
800MHz, 133MHz FSB, 256K L2	$998

Asus P3C-L — $199

- Intel i820 "Camino" chipset
- Intel Pentium III 450-800+MHz
- 133 / 100 MHz FSB support
- 1 x AGPPro 4X / 5 x PCI / 1 x ISA
- 2 x RIMM, up to 1GB, ATA/66
- Supports RAMBUS PC600,700 & 800
- Intel 82559 10/100 Mbps LAN
- ATX form factor, 305x241mm
- Yamaha 744 sound

Without CPU $199

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$428
550MHz, 100MHz FSB, 512K L2	$468
600MHz, 100MHz FSB, 512K L2	$598
600MHz, 100MHz FSB, 256K L2	$528
600MHz, 133MHz FSB, 256K L2	$598
667MHz, 133MHz FSB, 256K L2	$628
700MHz, 100MHz FSB, 256K L2	$748
733MHz, 133MHz FSB, 256K L2	$824
750MHz, 100MHz FSB, 256K L2	$858
800MHz, 133MHz FSB, 256K L2	$1028

Tyan Thunder 2400 S2257 — $569

- Intel i840 Dual processor chipset
- Dual Intel Pentium III 450-800+MHz
- 133 / 100 MHz FSB support
- 1 x AGPPro 4X / 5 x PCI / 2 x 64-bit PCI
- 4 x DIMM, up to 2GB, ATA/66, U2SCSI
- Supports RAMBUS PC600,700 & 800
- Dual Channel Ultra2 LVD SCSI
- Intel 82559 10/100 Mbps LAN
- ATX form factor, 305x241mm
- Yamaha 744 sound

Without CPU $569

With Intel Pentium III Processor:

500MHz, 100MHz FSB, 512K L2	$798
550MHz, 100MHz FSB, 512K L2	$838
600MHz, 100MHz FSB, 512K L2	$968
600MHz, 100MHz FSB, 256K L2	$898
600MHz, 133MHz FSB, 256K L2	$968
667MHz, 133MHz FSB, 256K L2	$998
700MHz, 100MHz FSB, 256K L2	$1118
733MHz, 133MHz FSB, 256K L2	$1194
750MHz, 100MHz FSB, 256K L2	$1228
800MHz, 133MHz FSB, 256K L2	$1398

SOCKET 7 MOTHERBOARDS

AOpen MX59 Pro II — $89

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- Intel Pentium MMX 166-233MHz
  AMD K6, K6-2 & K6-III 166-533MHz
- 100, 97, 95, 66 MHz FSB support
- 4 x PCI / 1 x ISA
- 2 x DIMM, up to 512mB, ATA/66
- microATX form factor, ca. 244x220mm
- On-board Video, AC97 sound

Without CPU $89

With Intel Pentium MMX Processor:

P54C 233MHz	$139

With AMD K6-2 Processor:

K6-2 500MHz	$159
K6-2 533MHz	$179

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- VIA Apollo MVP3+ chipset
- Intel Pentium MMX 166-233MHz
  AMD K6, K6-2 & K6-III 166-550MHz
- 100, 95, 66 MHz FSB support
- 1 x AGP / 4 x PCI / 3 x ISA
- 3 x DIMM, up to 768mB, ATA/66
- BAT form factor, ca. 250x220mm
- Hardware monitoring, opt. ATX power

Without CPU $89

With Intel Pentium MMX Processor:

P54C 233MHz	$139

With AMD K6-2 Processor:

K6-2 500MHz	$159

FIC VA503+ — $79

- VIA Apollo MVP3 chipset
- Intel Pentium MMX 166-233MHz
  AMD K6, K6-2 & K6-III 166-500MHz
- 100, 95, 66 MHz FSB support
- 1 x AGP / 3 x PCI / 3 x ISA
- 2 x DIMM, 4 x SIMM, up to 512MB
- BAT form factor, ca. 244x219mm
- Opt. ATX power

Without CPU $79

With Intel Pentium MMX Processor:

P54C 233MHz	$129

With AMD K6-2 Processor:

K6-2 500MHz	$149

Soyo SY5-EHM — $79

- VIA Apollo MVP3 chipset
- Intel Pentium MMX 166-233MHz
  AMD K6, K6-2 & K6-III 166-500MHz
- 100 / 66 MHz FSB support
- 1 x AGP / 3 x PCI / 3 x ISA
- 2 x DIMM, 2 x SIMM, up to 512MB
- BAT form factor, ca. 244x219mm

Without CPU $79

With Intel Pentium MMX Processor:

P54C 233MHz	$129

With AMD K6-2 Processor:

K6-2 500MHz	$149

Tyan S1590 — $89

- VIA Apollo MVP3 chipset
- Intel Pentium MMX 166-233MHz
  AMD K6, K6-2 & K6-III 166-500MHz
- 100 / 66 MHz FSB support
- 1 x AGP / 4 x PCI / 4 x ISA
- 3 x DIMM, 2 x SIMM, up to 768MB
- BAT form factor, ca. 244x219mm

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K6-2 500MHz	$159

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PHL107S2 PHILLIPS 17"(15.0 viewable) 0.24mm dot pitch , 1280 x 1024 resolution	$209

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DIAS3540X DIAMOND S3 Savage4 Xtreme 128-bit 2D, 3D and video, 32MB SDRAM.	$115
DIAVIPER2 DIAMOND 32MB video memory/framebuffer, AGP video card with S3 Savage2000	$143
DIA215914 DIAMOND 32MB video memory/framebuffer, AGP video card with S3 Savage2000™	$169

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8X64133 ALL COMPONENTS PC133 compliant 64MB memory module, SDRAM type, 168-pin DIMM form factor	$59
16X64133 ALL COMPONENTS PC133 compliant 128MB memory module, SDRAM type, 168-pin DIMM form factor.	$119
32X64133 ALL COMPONENTS PC133 compliant 256 MB memory module, SDRAM type, 168-pin DIMM form factor	$239
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CMY200617 CORSAIR PC100 compliant 64MB memory module, SDRAM type, 168-pin DIMM form factor.	$69

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ANT451946 ANTECSuper Mini Tower in translucent red color, fits ATX style motherboard, 250W power supply	$89
ANT512863 ANTEC Super Mini Tower in translucent black color, fits ATX style motherboard, 250W power supply	$89
ANT47223 ANTEC File Server Tower fits ATX style motherboard, 300W power supply, 10 bays	$109

ENLIGHT

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EN7200CB Desktop case, fits ATX style motherboard, 250W power supply, 6 expansion slots	$59

INWIN

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Seagate Hard Drives

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WD205AA WD 20.5GB Ultra DMA/66 Hard Drive, 2MB Cache, 9.5ms access time, 5400 rpm	$149
WD307AA WD 30.7GB Ultra DMA/66 Hard Drive, 2MB Cache, 9.5ms access time, 5400 rpm	$215
WD102BA WD 10.2GB Ultra DMA/66 IDE Hard Drive, 2MB cache, 8.5ms access time, 7200 rpm	$129
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CD-ROM Drives

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TE839057 TEAC 40x Speed EIDE/ATAPI CD-ROM drive, internal	$79
DELTA48X DELTA 48x Speed EIDE/ATAPI CD-ROM drive, Internal	$39

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TX225819 PLEXTOR 32x read, 8x write, and 4x re-write internal; 4MB buffer, ATAPI-4 / E-IDE interface	$239
TX521311PLEXTOR 32x read, 12x write, and 4x re-write internal; 4MB buffer, Ultra SCSI (50-pin) interface,	$359
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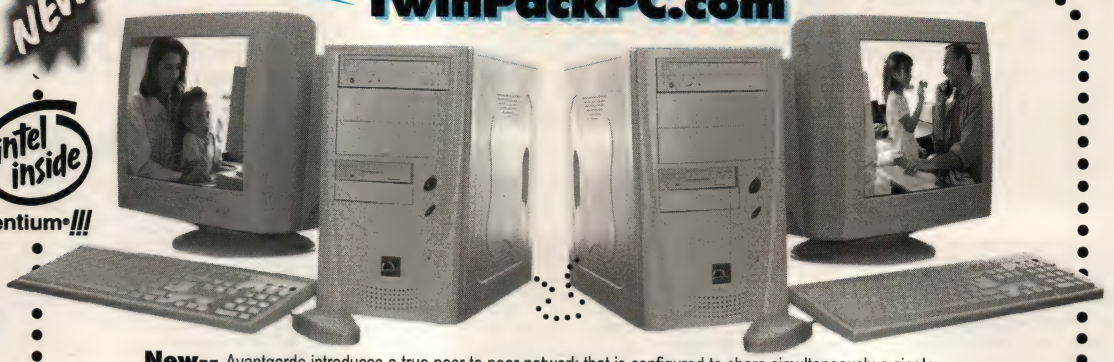

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- Creative Sound Blaster Live Value Card & Mic
- **3COM** USR 56K V.90 Fax/Voice Modem
- 1.44 MB Floppy Drive/microphone
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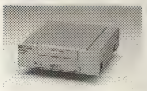

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Seagate

Capacity	Speed	Buffer	Part Number	Int.
4.3GB	5400rpm	256K	ST34314A	$82
8.4GB	5400rpm	512K	ST38410A	$99
10.2GB	5400rpm	512K	ST310212A	$115
10.2GB	7200rpm	2MB	ST310210A	$Call
13.0GB	5400rpm	512K	ST313021A	$125
15.3GB	5400rpm	512K	ST315323A	$132
17.2GB	5400rpm	512K	ST317221A	$135
20.4GB	5400rpm	512K	ST320423A	$143
20.4GB	7200rpm	2MB	ST320420A	$Call
30.6GB	7200rpm	2MB	ST330630A	$Call

IBM

Capacity	Speed	Buffer	Part Number	Int.
30.7GB	7200rpm	2MB	07N3929	$279
46.1GB	7200rpm	2MB	07N3931	$386
61.4GB	7200rpm	2MB	07N3933	$517
76.8GB	7200rpm	2MB	07N3935	$624

Maxtor

Capacity	Speed	Buffer	Part Number	Int.
10.2GB	5400rpm	512K	M91021U2	$106
15.3GB	5400rpm	512K	M91531U3	$124
20.0GB	7200rpm	2MB	M52049U4	$167
20.4GB	5400rpm	512K	M92041U4	$141
30.0GB	7200rpm	2MB	M53073U6	$211
40.0GB	5400rpm	2MB	M94098U8	$262
40.0GB	7200rpm	2MB	M54098U8	$274
61.4GB	5400rpm	2MB	M96147U8	$Call

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Quantum

Capacity	Speed	Buffer	Part Number	Int.
5.1GB	5400rpm	512K	QML05100LA	$85
10.2GB	5400rpm	512K	QML10200LA	$108
10.2GB	7200rpm	2MB	QMP10200LM	$129
15.0GB	5400rpm	512K	QML15000LA	$126
15.0GB	7200rpm	2MB	QMP15000LM	$148
20.4GB	5400rpm	512K	QML20400LA	$149
20.5GB	7200rpm	2MB	QMP20500LM	$165
30.0GB	5400rpm	512K	QML30000LA	$209
30.0GB	7200rpm	2MB	QMP30000LM	$250

WESTERN DIGITAL

Capacity	Speed	Buffer	Part Number	Int.
6.4GB	5400rpm	512K	WDAC64AA	$99
8.4GB	5400rpm	512K	WDAC84AA	$105
10.2GB	5400rpm	512K	WDAC102AA	$112
13.0GB	5400rpm	512K	WDAC136AA	$132
15.3GB	7200rpm	2MB	WDAC153BA	$154
20.5GB	5400rpm	2MB	WDAC205AA	$159
20.5GB	7200rpm	2MB	WDAC205BA	$189
27.3GB	7200rpm	2MB	WDAC273BA	$275
30.0GB	5400rpm	512K	WDAC307AA	$223

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Parallel Port External Case	(PPCASEHD)	$89
GSI External HotPort IDE Case, true IDE transfer rates	(HOTPORT)	$129
ULTRA ATA-66		
ATA-66 2 Drive 80 conductor cable	(CABLEATA66)	$9
ATA-66 PCI controller card	(ULTRA66)	$39
Promise Ultra ATA-66 RAID	(FASTTRAK66)	$95
ULTRA-2 SCSI		
External Active terminator	(ULTRA2TERMA)	$29
3' External Ultra-2 to Ultra-2 cable	(U2TOU2-3)	$25
ULTRA WIDE SCSI		
Tekram PCI Ultra Wide controller kit	(DC390F)	$79
3' External Ultra Wide to Ultra Wide cable	(SC3TOSC3-3)	$19
ULTRA 160 SCSI *Call for more.*		
Adaptec PCI Ultra 160 64 bit controller	(A29160)	$299
Adaptec PCI Ultra 160 64 bit dual channel	(A39160)	$359
DPT PCI Ultra 160 RAID 32 bit controller	(PM1564U3)	$469

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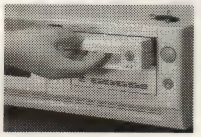

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ULTRA WIDE SCSI (DPUWCART)	$69	$89
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ULTRA WIDE SCSI (DPUFRAME)	$79 same as plat.	

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Int. (XC318200LW) (XC318200LWX)

Seagate

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Ultra-2 SCSI **$499 Ext.**
(ST318275LW) Int. (ST318275LWX)

IBM

18.2 GB $322 UltraStar 18ES
Ultra-2 SCSI **$452 Ext.**
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Stores up to 5.2GB on a single disk. (SDW1111)

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CREATIVE

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Reads DVD-ROM, DVD-R, CD-R & CD-RW disks.
Stores up to 5.2GB on a single disk. (CLDVDRAM)

ULTRA SCSI HARD DRIVES

Seagate

Capacity	Speed	Buffer	Part Number	Int.	Ext.
9.2GB	7200rpm	2MB	ST39216N	$239	$299
18.4GB	7200rpm	2MB	ST318416N	$361	$421

IBM

Capacity	Speed	Buffer	Part Number	Int.	Ext.
9.1GB	7200rpm	2MB	IBM309170N	$231	$291
18.2GB	7200rpm	2MB	IBM318350N	$322	$382

ULTRA WIDE SCSI HARD DRIVES

Seagate

Capacity	Speed	Buffer	Part Number	Int.	Ext.
9.2GB	7200rpm	2MB	ST39216W	$239	$329
18.4GB	7200rpm	2MB	ST318416W	$361	$451

IBM

Capacity	Speed	Buffer	Part Number	Int.	Ext.
9.1GB	7200rpm	2MB	IBM309170W	$231	$321
18.3GB	7200rpm	2MB	IBM318350W	$322	$412

SCA HARD DRIVES

Seagate

SCA & SCA 160 (Single Connector Attachment)

Capacity	Speed	Buffer	Part Number	Int.
9.2GB	7200rpm	2MB	ST39236LC	$239
9.2GB	7200rpm	4MB	ST39236LCV	$252
9.2GB	10,000rpm	4MB	ST39204LC	$352
18.2GB	10,000rpm	4MB	ST318404LC	$539
18.4GB	7200rpm	2MB	ST318436LC	$361
18.4GB	7200rpm	4MB	ST318436LCV	$379
36.7GB	10,000rpm	4MB	ST336704LC	$939
36.7GB	10,000rpm	16MB	ST336704LCV	$999
73.4GB	10,000rpm	4MB	ST173404LC	$1619
73.4GB	10,000rpm	16MB	ST173404LCV	$1689

Quantum

SCA & SCA ULTRA-2 Single Connector Attachment

Capacity	Speed	Buffer	Part Number	Int.
9.1GB	7200rpm	4MB	XC309100SCA	$250
9.1GB	10,000rpm	2MB	TN309100SCA	$333
18.3GB	7200rpm	4MB	XC318400SCA	$395
18.2GB	10,000rpm	2MB	TN318200SCA	$542
36.7GB	7200rpm	4MB	XC336400SCA	$785
36.4GB	10,000rpm	2MB	TN336400SCA	$935

ULTRA/160M SCSI HARD DRIVES

Quantum

Ultra 160 SCSI (up to 160MB/sec)

Capacity	Speed	Buffer	Part Number	Int.	Ext.
9.1GB	7200rpm	2MB	XC309100LW	$250	$382
9.1GB	10,000rpm	2MB	TN309100LW	$333	$483
18.2GB	7200rpm	2MB	XC318200LW	$395	$529
18.2GB	10,000rpm	2MB	TN318200LW	$542	$675
36.4GB	7200rpm	2MB	XC336400LW	$785	$922
36.4GB	10,000rpm	2MB	TN336400LW	$935	$995

Seagate

Ultra 160 SCSI (up to 160MB/sec)

Capacity	Speed	Buffer	Part Number	Int.	Ext.
9.2GB	7200rpm	2MB	ST39236LW	$239	$369
9.2GB	7200rpm	4MB	ST39236LWV	$252	$382
9.2GB	10,000rpm	4MB	ST39204LW	$352	$482
18.2GB	10,000rpm	4MB	ST318404LW	$539	$669
18.4GB	7200rpm	2MB	ST318436LW	$361	$491
18.4GB	7200rpm	4MB	ST318436LWV	$379	$509
36.7GB	10,000rpm	4MB	ST336704LW	$939	$1069
36.7GB	10,000rpm	16MB	ST336704LWV	$999	$1129
73.4GB	10,000rpm	4MB	ST173404LW	$1619	$1749
73.4GB	10,000rpm	16MB	ST173404LWV	$1689	$1819

IBM

ULTRA 160/m (160MB/sec)

Capacity	Speed	Buffer	Part Number	Int.	Ext.
9.1GB	7200rpm	4MB	07N3120	$267	$397
9.1GB	10,000rpm	4MB	07N3220	$339	$469
18.2GB	7200rpm	4MB	07N3110	$391	$521
18.3GB	10,000rpm	4MB	07N3210	$565	$695
36.4GB	7200rpm	4MB	07N3100	$744	$874
36.9GB	10,000rpm	4MB	07N3200	$905	$1035

FIBRE 160 HARD DRIVES

Seagate

Capacity	Speed	Buffer	Part Number	Int.
9.2GB	10,000rpm	4MB	ST39204FC	$352
18.2GB	10,000rpm	4MB	ST318404FC	$539
36.7GB	10,000rpm	4MB	ST336704FC	$939
73.4GB	10,000rpm	4MB	ST173404FC	$1619

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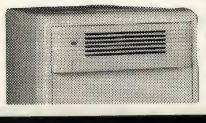

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8x	20 Pack [CDR80-20]	$25
8x	50 Pack [CDR80-50]	$57
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Bulk!	Spindle 74 minute media. Includes 50 CD-Rs (8x), No jewel cases included (CDR74S8-50)	$59
Bulk!	Spindle 74 minute media. Includes 100 CD-Rs (8x), No jewel cases included (CDR74S8-100)	$115
Bulk!	Spindle 80 minute media. Includes 100 CD-Rs (8x), No jewel cases included (CDR80S8-100)	$99

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4x	Budget 50 pack (CDR74WB-50)	$56
4x	Budget 100 pack (CDR74WB-100)	$104
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4x	20 pack (CDR74W-20)	$77
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• Plextor 8x4x32 ReWritable •
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IDE internal with software, 1 R & 1 RW disk [PXW8432R] $259

• Yamaha 8x4x24 ReWritable •
Writes to CDR (write once) or CDRW media. Supports packet write, 4 MB buffer, tray loading.
IDE internal [YCRW8424E] $209
IDE internal with software & 1 RW disk [YCRW8424EK] $235

• Sony 10x4x32 Rewritable •
Writes to CDR (write once) or CDRW media. Supports packet write, 4 MB buffer, tray loading.
IDE internal with software, 1 R & 1 RW disk [CRX145E] $279

• Teac 4x4x32 Rewritable •
Writes to CDR (write once) or CDRW media. Supports packet write, 2 MB buffer, tray loading.
IDE internal with software & 1 RW disk [CRW54EKIT] $199

• Creative 8x4x32 Rewritable •
Packet write, 2MB buffer, tray load.
IDE internal with software & 1 RW disk [SBCDRW8432] $235

• MicroSolutions Parallel Port CD-RW •
4x4x20 CD Rewritable [BACKPAC4X20] $285

• Acer 8x4x32 •
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Internal [PXR8020T] /External [PXR8020TX] $299/$389

• Teac 8x24 •
Packet write, 4MB buffer, tray load w/software & 1 disk.
Internal complete kit [CDR8X24TK] $269
External [CDR8X24TX] $359

SCSI CD REWRITABLE

• Plextor 8x2x20 ReWritable •
Packet write, 4MB buffer, tray loading.
SCSI Internal [PXW8220R] / SCSI Ext. [PXW8220BX] $325/$385

• Yamaha 8x4x24 ReWritable •
Packet write, 4MB buffer, tray loading.
SCSI Internal [YCRW8424S] /External [YCRW8424SX] $249/$299
Internal w/software & 1RW disk [YCRW8424WOW] $259

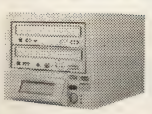
• Sony 8x4x32 ReWritable •
Packet write, tray loading.
SCSI Internal [CRX140S] /External [CRX140SX] $279/$329

• Hewlett Packard 8x4x32 ReWritable •
Packet write, 4MB buffer, tray loading.
SCSI Internal [C4457A] /External [C4457AX] $279/$339

• CenDyne 12x4x32 •
Packet write, 4MB buffer, tray loading.
SCSI Internal [CD1CD00028] / SCSI Ext. [CD1CD00028X] $335/$395

• Plextor 12x4x32 ReWritable •
Packet write, 4MB buffer, tray loading.
SCSI Internal [PXW12432B]/SCSI Ext. [PXW12432BX] $309/$369
Internal w/software & 1 disk [PXW12432I] $319
Retail Kit Internal, w/software & disk [PXW12432BX] $339

CD DUPLICATOR



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	Drive Kit	Ext Drive	ISA Int Kit	ISA Ext Kit	PCI Int Kit	PCI Ext Kit
8x4x24 IDE CD ReWritable	**$239**	**$359**	**$269**	**$359**	**$389**	**$n/a**
8x Record, 4x ReWrite, 24x Read, Yamaha mechanism Packet write compatible, 4MB cache, tray load	#YAM8X4X24IN	#YAM8X4X24HP	#YAM8X4X24I	#YAM8X4X24HP	#YAM8X4X24IP	
10x4x32 IDE CD ReWritable	**$279**	**$399**	**$309**	**$399**	**$429**	**$n/a**
10x Record, 4x ReWrite, 32x Read, HP mechanism Packet write compatible, 2MB cache, tray load	#HP8X4X32IN	#HP8X4X32HP	#HP8X4X32I	#HP8X4X32HP	#HP8X4X32IP	
8x4x32 IDE CD ReWritable	**$239**	**$359**	**$269**	**$359**	**$289**	**$n/a**
8x Record, 4x ReWrite, 32x Read, Ricoh mechanism Packet write compatible, 4MB cache, tray load	#RIC8X4X32IN	#RIC8X4X32HP	#RIC8X4X32I	#RIC8X4X32HP	#RIC8X4X32IP	
8x2x20 SCSI CD ReWritable	**$339**	**$399**	**$409**	**$439**	**$419**	**$459**
8x Record, 2x ReWrite, 20x Read, Plextor mechanism Packet write compatible, 4MB cache, tray load	#PLE8X2X20SN	#PLE8X2X20EX	#PLE8X2X20S	#PLE8X2X20SX	#PLE8X2X20P	#PLE8X2X20PX
8x4x24 SCSI CD ReWritable	**$259**	**$319**	**$329**	**$359**	**$339**	**$379**
8x Record, 4x ReWrite, 24x Read, Yamaha mechanism Packet write compatible, 4MB cache, tray load	#YAM8X4X24SN	#YAM8X4X24EX	#YAM8X4X24S	#YAM8X4X24SX	#YAM8X4X24P	#YAM8X4X24PX
8x4x32 SCSI CD ReWritable	**$289**	**$349**	**$359**	**$389**	**$369**	**$409**
8x Record, 4x ReWrite, 32x Read, HP mechanism Packet write compatible, 4MB cache, tray load	#HP8X4X32SN	#HP8X4X32EX	#HP8X4X32S	#HP8X4X32SX	#HP8X4X32P	#HP8X4X32PX
10x4x32 SCSI CD ReWritable	**$339**	**$399**	**$409**	**$439**	**$419**	**$459**
10x Record, 4x ReWrite, 32x Read, Sony mechanism Packet write compatible, 4MB cache, tray load	#CR10X4X32SN	#CR10X4X32EX	#CR10X4X32S	#CR10X4X32SX	#CR10X4X32P	#CR10X4X32PX
12x4x32 SCSI CD ReWritable	**$349**	**$409**	**$419**	**$449**	**$429**	**$469**
12x Record, 4x ReWrite, 32x Read, Cendyne mechanism Packet write compatible, 4MB cache, tray load	#C12X4X32SN	#C12X4X32EX	#C12X4X32S	#C12X4X32SX	#C12X4X32P	#C12X4X32PX

Drive Kit - Includes drive, Mastering software for Win 95, 98 & NT, & 5 free 4x CDR-W disks (requires controller).
Ext Drive - Includes drive in our high quality external case, Mastering software for Win 95, 98 & NT & 5 free 4x CDR-W disks. (requires cable & terminator). (IDE External Drive only includes Hot Port case & ISA controller card).
ISA/PCI Int Kit - Includes drive, ISA or PCI controller, Mastering software for Win 95, 98 & NT & 5 free 4x CDR-W disks.
ISA/PCI Ext Kit - Includes drive in our high quality case, 3 foot SCSI cable, terminator, ISA or PCI controller, Mastering software for Win 95, 98 & NT & 5 free 4x CDR-W disks.
Units with Plextor or HP mechanism - Includes an additional 1 CDR and 1 CDRW disk.

CD ROM READERS

• SCSI DRIVES •

Brand	Model	Max Spin	Speed	Internal	External
Teac	CD532S	32X	85ms	$82	$172
Plextor	PX32TS(tray)	32X	85ms	$88	$178
Plextor	PX32CS(caddy)	32X	85ms	$140	$230
NEC	CDR3010	40X	75ms	$72	$162
Toshiba	XM6401B	40X	79ms	$82	$172
Plextor	PX40TS(tray)	40X	85ms	$98	$188
Kenwood	UCR415	52X	90ms	$149	$239

• WIDE SCSI DRIVES •

Plextor	PX40TSUW	40X	85ms	$99	$189
Pioneer SCSI 24x 6 Disk external CD Changer					$395

• ATAPI DRIVES (IDE) •

Brand	Model	Max Spin	Speed	Internal	Int Kit
Teac	CD540E	40X	85ms	$49	$79
NEC	CDR3000	40X	75ms	$53	$83
Creative	SBCD52	52X	100ms	$49	$79
Mitsumi	CRMCFX48X	48X	65ms	$53	$83
Kenwood	UCR412	52X	90ms	$89	$119
Kenwood	UCR420	62X	90ms	$109	$139
Kenwood	UCR421	72X	100ms	$125	$125

Ext Case Parallel port [PPCASECD] /Ext [PCMCIACD] $79/$119
HotPort External IDE CD case [HOTPORT] $129
New Creative Labs Sound Blaster Live MP3+ [SBLIVEMP3+] $95
We've got Labtec Speakers, Microphones & Headset Deals! Call

• CD LABELER •

Complete CD labeling system. Includes Software with over 1200 predesigned backgrounds & clip art, 50 labels, label applicator, and 20 sets of jewel case inserts. Easy to use. With the included stand-alone software, making professional looking labels is easy. CD Stomper Pro software works with Win 3.1, 95, NT, & Mac. Alone/With CDR drive purchase $25/$19

• CD MASTERING SOFTWARE •

Adaptec Easy-CD Creator $30 *w/drive purchase* Retail $90
Super easy to use. Supports Windows 95, 98 and Windows NT 3.51, & 4.x. Bundle version now supports Macintosh operating system. Win & Mac.
Apple Toast CD-ROM Pro Retail $89
The #1 mastering software for Macintosh. Supports Mac OS7 and later on Macintosh or compatible.
Creative Digital Research HyCD for UNIX Retail version $1559
HyCD Publisher works on SunOS , Solaris, and IRIX. It is used to develop Hybrid CD-ROMs integrating PC (ISO 9660 & Joliet), Macintosh (HFS), and UNIX (Rock Ridge) formats on a single CD-ROM. Note: Bundle versions may only be sold with a CD-R or CD-RW drive.

DVD DRIVES

COMPLETE KITS
New Acer 10X Drive kit [DVP1040A] $105
MegaHaus 16X Drive kit [DVD16KIT] $245
Creative Encore 8X DVD Drive kit [CLDVD8KIT] $229

Bare	Interface	CD Speed	DVD Speed	Part #	Price
Toshiba	IDE	40X/85ms	8X,105ms	SDM1302	$119
Pioneer	IDE	40X/80ms	10X,110ms	DVD114	$149
Pioneer	SCSI	32X/90ms	4.8X,120ms	DVD303	$129

Hollywood MPEG-2 Decoder [HOLLYWOOD] $69
Waveless wireless transmitter allows you to transmit DVD movies from computer to TV [PCTOTV] $119 or $109 w/DVD drive.

CD MULTIDRIVE TOWERS

• CD ROM TOWERS •
For fast access to multiple CD's at one time.
Perfect for schools, networks, and more. Toll free support.
52X models now available!

4 DRIVE SCSI TOWERS
(Ask about our new UltraWides)

40X	79ms	Toshiba	$419
40X	85ms	Plextor	$479

7 DRIVE SCSI TOWERS
(Ask about our new UltraWides)

40X	79ms	Toshiba	$729
40X	85ms	Plextor	$839

Ethernet CD Towers - Built-in 10 baseT or 100 baseT Ethernet connection. Hooks directly to your network. Designed for mixed LAN environment - can be used simultaneously from Windows 95, NT, OS/2, DOS, and UNIX platforms using Novell Netware, Microsoft Networks, and NFS. Prices shown for 10base T, 10/100 also available. *CALL.*

Speed	Brand	Access	7 Drive	Item #	13 Drive	Item #
32X	Plextor	32X	$1239	#PLEX32X7N	$2139	#PLEX32X13T
40X	Toshiba	79ms	$1195	#TOS6401X7N	$2059	#TOS6401X13T
40X	Plextor	85ms	$1305	#PLEX40X7N	$2259	#PLEX40X13T
52X	Kenwood	52X	$1739	#KEN415X7N	$3049	#KEN415X13T

New! Auto Switching Ethernet CD Towers
Auto switches between 10 baseT or 100 base T Ethernet connection. Hooks directly to your network. Designed for mixed LAN environment - can be used simultaneously from Win 95, NT, Win for Workgroups, OS/2, HTTP, Mac, and UNIX. 40 drive speed, 8 drive tower. Item #MIT40X8N $1189

Call 1-800-786-1153 For The Best Buy

ZIP & JAZ MEDIA

• IOMEGA 100MB ZIP •

Internal IDE [ZIP100A] / 10 Pack [ZIP100A-10]	$75/$699
External SCSI [ZIP100]	$99
Parallel External [PPZIP100]	$109
External USB [ZIP100USB]	$129
Zip media [ZIP100C] 2-9/10+	$12/10

• IOMEGA 2GB JAZ •

Internal SCSI [JAZ2I]	$309
External SCSI [JAZ2X]	$315
Jaz 1 GB media [JAZ1GIGPC] 2-5/5-9/10+	$80/77/75
Jaz 2 GB media [JAZ2GIGPC] 2-5/5-9/10+	$85/80/77

OPTICAL DRIVE

• SONY 5.2 GIG •

•4MB buffer. •Supports direct overwrite media.
Compatible with 5¼" 650MB, 1.3GB, & 2.6GB disks.

SCSI Drive Int. [SMOF551] / Ext. [SMOF551X]	$1389/1529
5.2GB media (SMAX5.2) 1-4/5-9/10+	$83/80/77

TAPE BACKUP

• SEAGATE 8GB TR4 •

4GB native and 8 GB compressed capacity. Backup rate up to 60MB/min. Includes DOS/Win backup software & 1 tape.

Internal IDE, with 1 tape [STT28000A]	$195
External IDE, with 1 tape [STT28000AX]	$325
Internal SCSI, with 1 tape [STT28000N]	$229
External SCSI, with 1 tape [STT28000NX]	$299

• HEWLETT PACKARD 10GB TR5 •

Includes backup software for Dos & Win. TR5 tapes $44

SCSI Internal TR5 [C4394A]	$389
SCSI External TR5 [C4394AX]	$479

• SEAGATE 10GB TR5 •

Internal SCSI NT/Netware software kit [STT22000N]	$459
External SCSI NT/Netware software kit [STT22000NX]	$549

SCSI TAPE DRIVES

• 4MM DAT DRIVES •

Cap. (Native/Comp.)	Max Speed	Brand & Model	
2GB 4GB	66MB/min	Seagate STD24000N	$419
4GB 8GB	66MB/min	Seagate DDS-2 STD28000N	$535
4GB 8GB	90MB/min	Sony SDT7000AI	$519
4GB 8GB	60MB/min	HP C1599AI	$559
12GB 24GB	144MB/min	Sony DDS-3 SDT9000AI	$679
12GB 24GB	120MB/min	HP DDS-3 C1554AI	$729
20GB 40GB	288MB/min	Sony DDS-4 SDT11000AI	$999
48GB 96GB	48MB/min	Seagate STL496000N	$2039
12GB 96GB	90MB/min	Sony TSL9000 tape loader	$1899
72GB 144GB	120MB/min	HP C5648A 6 tape loader	$1989
Media 1-4/5-9/10+	*120Meter (DAT120M)*		*$16/13/11*
Media 1-4/5-9/10+	*125 Meter (DAT125M)*		*$31/28/26*
Media 1-4/5-9/10+	*150 Meter (DAT150M)*		*$59/$57/$55*

• EXABYTE 8MM DAT DRIVES •

7GB 14GB	120MB/min	ELIANT820	$1159
20GB 40GB	360MB/min	EXB8900	$2019
140GB 280GB	180MB/min	EXB10H 10 tape loader	$4399
Media 2-4/5-9/10+	*160Meter (DAT160M8MM)*		*$12/11/10*

• QUANTUM DLT DRIVES •

20GB 40GB	180MB/min	DLT4000 $1350
Above as ext. our case		DLT4000X $1450
Above as ext. Qtm case		DLT4000QX $1550
35GB 70GB	600MB/min	DLT7000 $3759
Above as ext. our case		DLT7000X $3859
Above as ext. Qtm case		DLT7000QX $3959
40GB 80GB	600MB/min	DLT8000 $3999
Above as ext. our case		DLT8000X $4099
Above as ext. Qtm case		DLT8000QX $4199
Media 2-4/5-9/10+	*DLT3(DLT3)*	*$36/34/32*
Media 2-4/5-9/10+	*DLT3XT(DLT3XT)*	*$39/36/34*
Media 2-4/5-9/10+	*DLT4(DLT4)*	*$69/$67/$65*
2-4/5-9/10+	*DLT Cleaning Tape(DLTCLEAN)*	*$40/39/36*

• AIT DRIVES •

Sony, Seagate call for price.

Compressed capacity is with maximum compression. Speed and amount of compression depends on your application. Autoloaders may require certain options to get advertised capacity.

Make your CDs look more professional with the Signature color CD printer. Prints on CD printable media. Compatible with Win 3.1, 95 NT, and MacOS, [CDPRINTER3] ONLY $1069

MAKE IT REMOVABLE

It's 2AM - DO YOU KNOW WHERE YOUR FILES ARE?

Your data is valuable to you. Keep it safe by keeping it with you. Key on your drive when you start in the morning, key off & take it home with you at night. This is the best data security measure on the market.

DATA-PORT V Removable Drive Brackets

High quality construction. Gold plated connections. Features built in cooling fan, SCSI ID switch. Metal frame construction. Plastic cartridge with metal top and bottom covers. New IDE 66 is backward compatible with ATA-33 drives.

COMPLETE KIT	PLATINUM	BLACK
Includes 1 frame, and 1 cartridge		
IDE 66 with plastic cartridge (DP2200A66)	$85	n/a
IDE 66 with metal cartridge (DP2200AM66)	$95	$109
ULTRA WIDE SCSI (DP2200UW)	$139	$159
EXTRA CARTRIDGE		
Plastic IDE 66 (DPACART66)	$42	n/a
Metal IDE 66 (DPACARTM66)	$62	$79
ULTRA WIDE SCSI (DPUWCART)	$69	$89
EXTRA FRAME		
IDE 66 (DPAFRAME66)	$52	
ULTRA WIDE SCSI (DPUWFRAME)	$79	

DATA-PORT VI Removable Drive Brackets

High quality construction. Gold plated connections. Features built in cooling fan with audible fan failure alarm,
SCSI ID switch. Metal frame and cartridge construction.

COMPLETE KIT	PLATINUM	BLACK
Includes 1 frame, and 1 cartridge		
Ultra SCSI (DP2200SM)	$89	$129
ULTRA WIDE SCSI (DP2200UWM)	$149	$169
SCA (uses SCA drives) (DP2200SCA)	$139	$159
EXTRA CARTRIDGE		
Ultra SCSI (DPSCARTM)	$59	$79
ULTRA WIDE SCSI (DPUWCARTM)	$89	$109
SCA (uses SCA drives) (DPSCACART)	$89	$109
EXTRA FRAME		
Ultra SCSI (DPSFRAMEL)	$59	
ULTRA WIDE SCSI (DPUWFRAMEA)	$69	
SCA (DPSCAFRAME)	$79	
ACCESSORIES for DataPort V and VI		
Cover plate (DPFPLATE)	$8	$10

Plastic Carying Case. Fully lined. (DPCASE) $25

Metal Carrying Case. Fully lined w/lock for extra security (DPCASEM) $35

Keep your data safe - in fact, this is the ultimate in data safety. When you want to lock up your data - lock up your whole drive! With DataPort - You CAN take it with you when you go.

BACKUP SOFTWARE

Veritas (formerly Seagate) Backup Exec	
Windows 95 & 98 [SBEWDWD]	$69
WindowsNT Workstation [SBENTWD]	$69
Windows NT single server [SBENTSE]	$419
Windows NR multi server [SBENTME]	$879
Windows NT/2000 Exchange Server Agent [SBENTX006]	$495
Windows NT/2000 SQL Agt E/F/G/S/I [SBENTSQ0007]	$565
Windows NT/2000 Server En [SBENTSR0000]	$569
Small Business Server Suite [SBENTSB]	$429
Netware single server & unlimited users [SBENWSE]	$449
Netware multi server [SBENWME]	$829
NovaStor	
NovaWorks CD contains backup software for DOS, Win 3.1, Windows 95, Win NT, Macintosh, and OS/2	
Compatible with SCSI, IDE, and QIC drives [NOVACD]	$55
NT SE for Windows NT/2000 [79210]	$299
NT single server for NT/2000 [79230]	$415
NT unlimited servers and unlimited users [79250]	$715
NovaBackup for Windows NT/2000	
Server [29801]	$125
Workstation [29821]	$59
NovaNet 8 for NetWare	
SE [79310] / Single Server for NetWare 25 User [79320]	$319/$339
Single Server for NetWare 1000 User [79330]	$419
Unlimited for NetWare 25 User [79340]	$589
Unlimited for NetWare 1000 User [79350]	$689

2.5" LAPTOP DRIVES

TOSHIBA				
4.3GB	4200rpm	8.45mm	MK4313MAT	$155
6.0GB	4200rpm	9.5mm	MK6014MAP	$159
12.1GB	4200rpm	9.5mm	MK1214GAP	$245
18.1GB	4200rpm	12.5mm	MK1814GAV	$369
IBM				
6.0GB	4200rpm	9.5mm	DA206000	$179
12.0GB	4200rpm	9.5mm	DA212000	$250
18.1GB	4200rpm	12.5mm	DA218000	$419
25.3GB	5411rpm	17mm	DA225000	$529
HITACHI				
6.0GB	4200rpm	9.5mm	DK32AA-60	$149
12.0GB	4200rpm	12.7mm	DK23AA-12	$239

2.5" Accessories

Diskmanager Software for larger drives on older systems [DISKMANAGER]	$12
Parallel case for 2.5" drives [PPCASE2.5]	$69
PCMCIA case for 2.5" drives [PCMCIA2.5]	$119
2.5" TO 3.5" adapter kit [IDEKIT-2.5]	$15

2.5" drive caddies:For IBM, Toshiba, NEC, Compaq and More. Just $49 each!

EXTERNAL LAPTOP DRIVES

MicroSolutions

Microsolutions offers a complete line of plug and play external drives. These drives easily interface with your computer's parallel printer port. They also have a pass through connector so you can use your printer at the same time.

32X CD-ROM	#BACKPAC32X	$165
32X CD-ROM w/sound	#BACKPAC32XS	$195
6GB Hard Drive	#BACKPACK6G	$259
8GB Hard Drive	#BACKPACK8G	$295
4x4x20 CD Rewritable	#BACKPAC4X20	$289

Big Ultra Drives to Store Ultra Big Files

Quantum	36.4 Gig	Ultra 160/m SCSI (XC336400LW)	$785
IBM	76.8 Gig	Ultra ATA/66 IDE (07N3935)	$624
Quantum	30.0 Gig	Ultra ATA/66 IDE (QML30000LM)	$250
Maxtor	61.4 Gig	Ultra ATA IDE (M946147U8)	$CALL
Seagate	73.4 Gig	Ultra 160/m SCSI (ST173404LW)	$1619
Seagate	73.4 Gig	SCA (STST173404LC)	$1619

YAMAHA® CD-RW SALE!

8x4x24

4 MB data buffer for more reliable performance.
Tray loading for easy use. Packet write compatible.
Price includes mastering software and 1 CD-RW disk.

Internal SCSI-2	External SCSI-2
$259	$299
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THINKPAD 390's

Model	Processor	Display	Ram/HD/CD/Mod	Price
390X	Celeron® 400	12.1 TFT	64/6.4/24X/56k	1449.99
390X	Pentium® II 400	14.1 TFT	64/6.4/24X/56k	1799.99
390X	Pentium® II 400	15 TFT	64/6.4/24X/56k	2099.99
390X	Pentium® III 450	14.1 TFT	64/12/24X/56k	1999.99
390X	Pentium® III 500	15 TFT	64/12/24X/56k	CALL

THINKPAD 600X
Pentium® III 450 Mhz Processor
13.3" Active Color Display,
64 Mb Ram/6.4Gb HD,
24X CD Rom, 56k Mod.
$2499.99

600E	Pentium® II 400	13.3 TFT	64/10/DVD/56k	2399.99
600X	Pentium® III 500	13.3 TFT	64/12/24X/56k	2999.99
600X	Pentium® III 500	13.3 TFT	64/12/DVD/56k	3199.99
600X	Pentium® III 650	13.3 TFT	64/12/24X/56k	3499.99
600X	Pentium® III 650	13.3 TFT	64/12/DVD/56k	CALL

THINKPAD i SERIES

Model	Processor	Display	Ram/HD/CD/Mod	Price
1422	Celeron® 500	13 HPA	32/6/24X/56k	1399.99
1442	Celeron® 500	12.1 TFT	64/6/DVD/56k	1699.99
1483	Pentium® III 500	14.1 TFT	64/12/24X/56k	2199.99
1492	Pentium® III 500	15 TFT	64/12/DVD/56k	2499.99
1542	Celeron® 500	12.1 TFT	64/12/24X/56k	1799.99
1562	Pentium® III 500	14.1 TFT	64/12/24X/56k	2299.99
1592	Pentium® III 500	15 TFT	64/12/24X/56k	2499.99

THINKPAD i-1482
Celeron® 500 Mhz Processor
14.1" Active Color Display,
64 Mb Ram/12Gb HD,
DVD Rom, 56k Mod.
$1999.99

THINKPAD 570's

570	Pentium® II 366	13.3 TFT	64/6.4/Opt/56k	2299.99
570E	Pentium® III 450	13.3 TFT	64/6/Opt/56k	2499.99
570E	Pentium® III 500	13.3 TFT	64/12/Opt/56k	2699.99

FUJITSU

LIFEBOOK C-4235
K6-2® 450 Mhz Processor
12.1" Active Color Display,
64 Mb Ram/6.4 Gb HD,
24X CD, 56k Modem
$1299.99
New

LIFEBOOK SERIES

Model	Processor	Display	Ram/HD/CD/Mod	Price
C5235	K6-2® 450 Mhz	13.3 TFT	64/6/DVD/56k	1599.99
C6177	Celeron® 500	14.1 TFT	64/6/DVD/56k	1899.99
C6330	Pentium® II 400	14.1 TFT	64/10/DVD/56k	1899.99
C6525	Pentium® III 450	14.1 TFT	64/9/6XDVD/56k	2199.99
C6535	Pentium® III 500	14.1 TFT	128/12/6XDVD/56k	CALL
C6537	Pentium® III 500	14.1 TFT	64/9/6XDVD/56k	2399.99
C6557	Pentium® III 650	14.1 TFT	128/12/6XDVD/56k	2999.99

LIFEBOOK E-6550
Pentium® III 650 Mhz Processor
14.1" Active Color Display,
128 Mb Ram/12Gb HD,
6X DVD Rom, 56k Mod.
CALL

E5140	Celeron® 433	13.3 TFT	64/6.4/24X/56k	1499.99
E5320	Pentium II® 366	13.3 TFT	64/10/24X/56k	1799.99
E5520	Pentium III® 450	13.3 TFT	64/10/24X/56k	2199.99
E6530	Pentium III® 500	14.1 TFT	128/10/DVD/56k	2899.99

ACER

TRAVELMATE 507DX
Celeron® 466 Mhz Processor
12.1" Dual Scan Color Display
32 Mb Ram/4.8 Gb HD,
24X CD Rom, 56k Mod.
$1099.99
FREE CASE New

TRAVELMATE

Model	Processor	Display	Ram/HD/CD/Mod	Price
506T	Celeron® 433	12.1 TFT	32/4.8/24X/56k	1199.99
507T	Celeron® 466	12.1 TFT	64/4.8/24X/56k	1399.99
514T	Celeron® 466	12.1 TFT	64/4.8/24X/56k	1599.99
514TVX	Celeron® 461	14.1 TFT	64/6/DVD/56k	CALL
723TXV	Pentium® II 400	14.1 TFT	64/6.4/DVD/56k	1999.99
730TXV	Pentium® III 450	14.1 TFT	64/8/DVD/56k	2199.99
732TXV	Pentium® III 500	14.1 TFT	64/9/DVD/56k	2399.99
734TL	Pentium® III 600	15 TFT	64/12/24X/56k	2899.99
736TL	Pentium® III 650	15 TFT	128/18/24X/56k	CALL

TRAVELMATE 340T
Pentium® III 450 Processor
12.1" Active Color Display,
64 Mb Ram/6.4 Gb HD, 56k Mod.
Ext. 24X CD Rom & 3.5" Floppy
$1899.99

342T	Pentium® III 500	12.1 TFT	64/9/24X/56k	2299.99

NEC

VERSA VX
Celeron® 466 Mhz Processor
12.1" Active Color Display,
64 Mb Ram/6 Gb HD,
24X CD Rom, 56k Mod.
$1499.99
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VERSA SERIES

Model	Processor	Display	Ram/HD/CD/Mod	Price
VersaVX	Celeron® 400	12.1 TFT	64/6.0/24X/56k	1399.99
VersaVX	Pentium® III 450	14.1 TFT	64/6.0/24X/56k	1999.99
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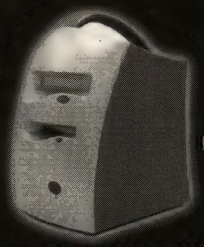

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KW15	FIC	1	4x	5	1	2	$109
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		INTEL			
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ALICE & BILL

The Hard Edge

BY ALICE HILL AND BILL O'BRIEN

Alice casts her vote; school's out, and so's the Internet; and Bill goes shopping with Priceline.com.

THE COMING ELECTION LEADS MOST PEOPLE TO PONDER THE NATION'S political future, but not Alice. To Alice, nothing, not even the act of writing a check, says "last century, pre-technology age" more than the act of voting.

Alice lives in San Francisco, which, along with neighboring Silicon Valley, is the most wired, cutting-edge place on the planet. Alice doesn't even go to the grocery store anymore; she uses the zippy Webvan.com. But to vote, Alice must step back to the time of thatched huts and malodorous villagers gathered by the town fountain—an act of extreme surrealism.

To vote in San Francisco in the year 2000, Alice has to find the musty garage or school building in her neighborhood and stand in a long line. When it's her turn, a volunteer combs through a huge list of names on a clipboard *(a clipboard!)* to find Alice's name. After signing a piece of paper *(paper!)*, Alice is handed a long punch card, which she inserts into a plastic holder. Using a crude metal stylus, she punches in each vote. The sound of manual card-punching fills the room, recalling the days when computers used punch cards. It's a sound Alice isn't even old enough to remember. *(I'm listening to a punch-card computer right now. —Bill)*

After she punches, Alice gets in another line to hand her card to a different volunteer, who tears off a perforated receipt and hands it back to her. And just when you thought things couldn't get more primitive, the volunteer places her ballot through an uneven, hand-cut slot in a cardboard box covered in sky-blue construction paper with the word "Votes" written in red Magic Marker on one side. Change the paper ballot to a blue stone or a red stone, and Alice could easily have been voting in a small French farming community circa 1600. *(That was a very close race. —Bill)*

The whole anachronistic process got Alice so upset one year, she began researching voting-booth alternatives, and even excitedly wrote a "Hard Edge" column years ago about an IBM voting booth that would automatically capture each vote on a touch screen. The voting PC

even came on an adjustable cart, so it could be lowered to accommodate the disabled. But the cost of trading in all the construction paper and punch cards for computers proved too expensive, so no one ever saw the device, and voting continued on its merry primitive way. Until now.

Alice was surprised and pleased to learn that in Arizona *(Arizona?)*, a limited number of citizens cast their primary votes over the Internet. Security and accuracy issues aside, Alice thinks this is the way we'll vote in the future. Here's why: For starters, the costs of buying and maintaining voting PCs are passed on to voters, because they're using their own hardware. All the voter needs is a URL and a password.

The best part is that online voting can both speed up and stretch out the process. The tally can be virtually automatic, but the act of voting can take hours, if you like. With links to candidates' background information, position papers, and voting records, voters can make more informed decisions, and they don't have to rush through the process to get to work on time. Those unable to make it to their neighborhood polling place can cast their votes from hotel rooms, hospital beds, or even their own kitchens while dinner is cooking. Voter turnout may become less of an embarrassment.

While this remains a utopian fantasy, Alice urges everyone to vote anyway, and await the day when the only stylus we see is the one you use with a Palm device. *(Or a Handspring Visor. —Bill)*

BACK TO SCHOOL

It's almost the end of the school year. For some of you, that means leaving the academic world behind and entering the business world. Escaping the rigors of tests, pop quizzes, and homework is something you've been looking forward to for years. Sometime in the next five years, when you're feeling overworked and underappreciated, you'll long for the hallowed halls of academia, safe from the backbiting and petty office politics. Tough. Join the club.

To the rest of us, the end of the school year marks the beginning of a three-month period during which it's almost impossible to get online. Whether it's because of children being babysat by computers, or 13-year-olds with handles from hell who clog the Internet's arteries chatting with friends next door, "We're sorry—all lines are currently busy" will soon become a household phrase again. Is it any wonder that those of us who use the Internet for work (what a concept) go on vacation this time of year?

ILLUSTRATION BY MELINDA BECK

ALICE & BILL

JUNE RANTS

◀) After nearly a month of playing with his Epson 740, Bill's only comment was, "How come the ink cartridges get used up so fast?" It's a much better printer than the HP 660c it replaced, but the next time an ink company goes public, Bill will be first in line for shares.

◀) The "Body by Jake Ab Machine" has nothing at all to do with Alice and Bill. So stop e-mailing us for product info, okay?

◀) We don't think the high price of RDRAM will have much effect on the sale of computers that use it. On the other hand, it takes soooo long for a Wintel box with RDRAM to boot up that the average SOHO user is likely to chuck it through the window after a week or so. That should put a crimp in repeat sales. And did you know that the first-access latency of RDRAM is so slow that SDRAM is faster? (Please, someone get DDR-SDRAM onto a motherboard quickly! Anybody know Micron's phone number?)

◀) RDRAM was originally designed as video memory. (Bill wrote a tech piece on memory a few years ago about it and several other types that were supposedly up-and-coming.) But RDRAM never made it as graphics memory. What made Intel think (or is that an oxymoron?) that it will be successful as system memory?

RDRAM never made it as graphics memory. What made Intel think it would be successful as system memory?

◀) InfoInterActive is a nice Canadian company that provides call-forwarding services for Internet users with only one phone line. Basically, your local phone company routes incoming calls to InfoInterActive when your line is busy and InfoInterActive's intercept software is running. (It loads at startup and self-activates when it senses an active dial-up connection.) The service is reasonably priced and packed with interactive call-handling features. So what's the problem? Intel has decided to buy into the company because it needs the functionality for its "after-the-PC era" PCs. All together now: "ARGGHHH!"

MONDO COOL

If you thought you'd never catch Bill doing anything on the Internet but research and e-mail, you should sit down now. Bill has been on Priceline.com. No, not for hotels and airfare. This is still Bill. He doesn't fly, and he rarely stays anywhere that doesn't sport your basic brick-wall decor. So what was he doing? Grocery shopping.

The ads lie. It doesn't take "just a few minutes." It's more like an hour of wrangling with options and choices. And it's not all that straightforward. You have to select two brands of every item you want. If you like peanut butter, you have as good a chance of ending up with Jif as Skippy. (At least they won't stick you with crunchy when you want creamy.)

So why is it so cool? When Bill was done, he strolled down to his local high-priced gourmet grocery mart, pulled some stuff off the shelves, and walked out with $60 worth of groceries for $42. All right, $60 worth of groceries isn't much these days, but think of the possibilities if you need more than just peanut butter, chocolate milk, and bread. Extrapolate. Best of all, you get to put one over on that snobby supermarket you've always hated going into. And maybe the long lines at both of the two open checkout counters won't seem so painful any more.

No, unlike Bill Shatner, our own Bill doesn't get any remuneration from Priceline, nor does he have any stock in the company. It's just about revenge. And creamy Skippy peanut butter.

NEXT MONTH

Come heck or high water (okay, maybe not high water), Bill will talk about Toshiba's new CD-RW/DVD-ROM drive. (Knowing Bill, he'll do more than talk. Anyone remember his automated cupholder tests of a few years ago?) Yes, Ricoh has had a similar drive available for a few months already, but now there's price competition.

MicroStar (MSI) has a new Athlon motherboard—the MS-6195 ATX-IR3. That means it's time to rip the guts out of the 700MHz Athlon reference system in the Basement of Doom and Pepsi-Cola to see if the new motherboard offers any better performance. It should. We'll see.

And if the planets align, the sun shines brightly, the earth gives forth flowering blooms, the squirrels stop digging holes in Bill's front lawn, and that groundhog moves out from under the Shed of D&PC, you may see the results of a deathmatch between a toner-based color laser printer and a solid-ink model. Cross your fingers. It's going to be tough getting those two into the same room.

By the way, thanks to the reader who wrote in to suggest a remanufactured toner cartridge for Bill's EPL-8000 as a cheaper alternative to a new $289 one. Now the old 8000 is back in service, stinking up the LofD&PC with its burnt-toner smell, just like it did in the old days.

This is our fourth month on glossy paper. Are we slick, or what?

ALICE AND BILL'S INTERNET IMPONDERABLES

◀) If it's a free trial, why do they want your credit-card information?

◀) Why is it that the more difficult it is to connect with your ISP, the more likely you are to see ads urging you to get your friends to join?

◀) Does anyone actually believe there's a "Next Page" on a thumbnail post site?

◀) If DSL provides such high speeds, why do most of us only get ISDN connect rates?

◀) Why don't Alice and Bill have their own "Hard Edge" Web site yet?

◀) If it's e-mail, e-business, e-commerce, e- everything else on the Internet, why is Compaq's Internet computer called the iPaq?

◀) If 1,000 monkeys were locked in a room for 100 years, could they create a Web site with streaming audio and video? Or would it just seem that way?

◀) Is there a difference between a server with a bunch of workstations and an ISP with a bunch of PCs logged on?

◀) If FTP servers allow anonymous logons, how do they know where to download the files?

◀) Will we experience a severe Internet backlash in the next three years?

Got any imponderables you'd like to share? Send them to Alice and Bill. E-mail is faster and better—go digital!

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SECTION CONTINUES ON PAGE 288

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FOR AT MOTHERBOARD

AT SIZE
230 - 600W
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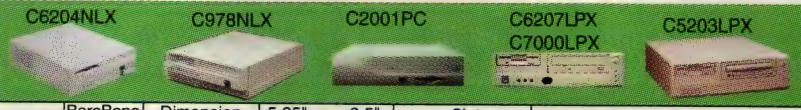

Model	BareBone Price	Dimension W.D.H(inch)	5.25" Ext./Int.	3.5" Ext./Int.	Slot PCI / ISA	Motherboard I/O PORTS
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C2001PC	$290	15.4x16.3x3.45	1/0	1/1	2PCI or 1PCI 1SA	Sound + Audio in/out + Video in/out + Mic (Upg to AMD K6-2 450MHZ) / PS
C978NLX	$390	11X13.6X3.35	1Slim CD	1/1	1PCI 1ISA or 2PCI	2S, 1P, Floppy, USB, RJ-45, PS/2 Mouse, PS/2 Keyboard, VGA, Audio, Game, IR / PS
C6207LPX C7000LPX	$260 Socket 370	12.4X14.5X3.4	1/0	1/1	2PCI or 1PCI 1ISA	PS2 Kb&Ms,Speaker/LineIn/Mic, Joystick/Midi, 1P.2S, VGA, USB, RJ45LAN, Audio / PS
C5203LPX	$310 Socket 7	12.4X14.5X3.4	1/0	1/1	2PCI	PS2 Kb&Ms,Speaker/LineIn, 1P.2S, VGA, USB, RJ45LAN, Audio / PS

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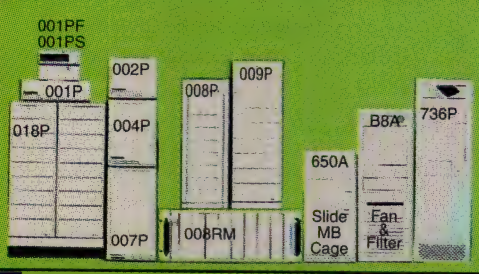

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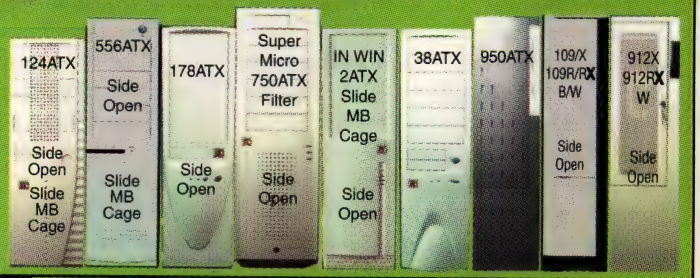

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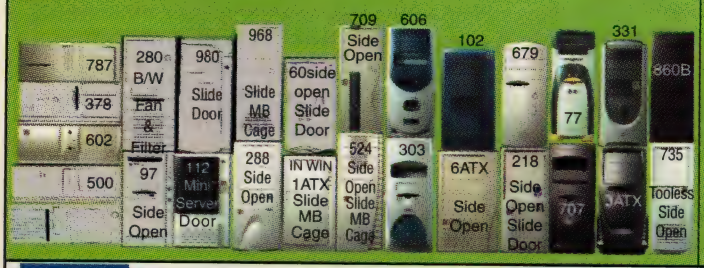

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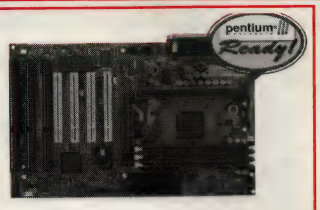

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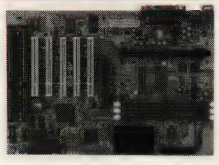

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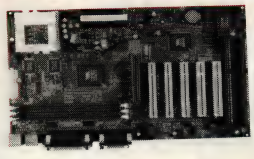

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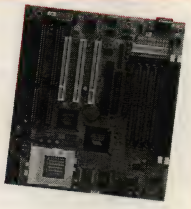

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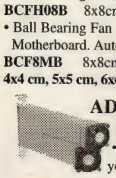

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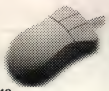

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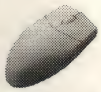
OU107 PS/2 mouse $3.95 **$2.99/12+**

Internet Scrolling Mouse



- Easy navigation on the internet.
- On-line zoom in/zoom out.
- 100% compatible with Microsoft IntelliMouse mode
- Auto Scroll function.
- Programmable third button.

JMSAWU	USB	$5.25	**$4.99/12+**
JMSAP1	PS/2	$5.25	**$4.99/12+**

Ergonomic Design 3-Button Serial & USB Mouse

DOS, Windows and OS/2 compatible. For PC with DB9F connector, opto-mechanical and resolution from 400 dpi.

JMSSUSB	USB	$5.49	**$4.95/5+**
JMSS6	Serial	$5.49	**$4.95/12+**

PC CABLE

PRINTER CABLE

- Bi-directional Support
- DB25 male to centronics 36M

Assembled/Molded	Assembled	Molded
CP1806/CPM1806 6'	**0.69**	**0.79**
CP1810/CPM1810 10'	**1.69**	**1.99**
CP1815/CPM1815 15'	**2.29**	**2.69**
CP2506/CPM2506 6'	**1.99**	**2.49**

IEEE 1284 PRINTER CABLES

CPR6D25C36	DB25M-CENT36M 6'	**$2.49**
CPR10D2C3	DB25M-CENT36M 10'	**3.95**

MOLDED MODEM CABLES

- DB9 Female to DB25 Male

CDM0925FM3	3'	**1.49**
CDM0925FM6	6'	**1.99**

RS232 CABLE

All with 25 wires straight thru & fully shielded.
- DB25MM (male to male) can be used from PC to serial device
- 15', 25', 50' and 100' AVAILABLE

		Assembled	Molded
CR/CRM2506MM/MF	6'	**1.69**	**1.89**
CR/CRM2510MM/MF	10'	**2.29**	**2.69**

IEEE 1284 SERIAL CABLES

CRSMM06BE	DB25M-DB25M 6'	**3.49**

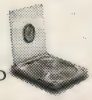
CD STORAGE

HIGH–TECH CD CASE

- Stores 40/60 CDs; Handle locks

XDBC040B	White, 40pcs	**19.90**
XDBC060B	Black, 60pcs	**24.95**

CD JEWEL BOX



- Protect your loose CD ROMs with these durable plastic cases. ***Five Per Pack***
- Compatible with all standard caddy CD ROM Drives

CDJEWEL	CD Jewel Box	**2.45**
CDCADDY	CD Caddy	**3.49**

***CD Wallet available on Web**

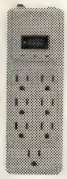
POWER PROTECTION

POWER CONSOLE

- Circuit breaker,with reset button
- Modem protection (PP06D)
- Full 3 line surge protection (3 m.o.v's) (PP06D)
- Noise filter (EMI/RFI) (PP06D)

PP06U	Basic Power Center	**11.95**
PP06D	with Modem Protection	**15.95**

POWER STRIP ALL UL APPROVED 2x3 POWER STRIP with MODEM PROTECTION



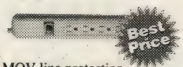
- Surge Indicator Light; Durable ABS Plastic
- Circuit Breaker, EMI, 3 MOV, 6' Cord

CG26B 2x3 Strip **7.49**

7 OUTLET POWER STRIP w/TRANSFORMER SPACE
- Extra Outlet for Transformer, Power Surge Indicator, Circuit Breaker, EMI, 1 MOV, 4' Cord

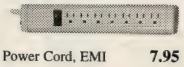
CG237P with Transformer **5.95**

POWER STRIPS with SURGE PROTECTOR



- Durable plastic, Built–in circuitbreak er, 1 MOV line protection

CG26P1 6 outlets, plastic, 4' cord **2.49**



- 7 outlets, plastic, EMI, Vertical socket, 3MOV Protection

CG27P1 7 outlets, 6' Power Cord, EMI **7.95**

MULTIMEDIA

3D Pn'P SOUND CARD

Plug n' Play, Win95 support and 3D Sound and 3D joystick support
- Supports Full Duplex Internet Phone
- Wavetable upgradable

MSCUT16	ISA	**$13.95**
MSCA724	PCI	**$13.95**

60W Hi-Fi SPEAKERS

- PMPO 60 watts; 2–channel stereo amplifier
- Measures: 2" x 3"
- Includes volume, control, AC adapter

MSPE691 $6.95 **$5.95/2+**

4-WATT SPEAKERS

- Measures: 3.75"W x 3"D x 4.5"H
- Input power: 4 watts/each

SPJ055 2W **$3.99/pair**

DELUXE Hi-Fi HEADPHONES

HP924
- 40 mm super thin diaphragm
- Gold Plated Plugs, 9' long cord
- Sensitivity: 102 dB, Freq. 20–20,000 Hz

HP924 **14.90**

HEADSET w/BOOM MICROPHONE

Stereo headset with closed vinyl ear cushion.
MSPM7602 Deluxe **19.95**

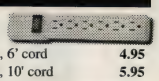
CLIP-ON MICROPHONE

Creates a hands-free environment.
MSPM9108 Clip–on Microphone **3.95**

CONDENSER MICROPHONE $1.99

- This microphone has a 3.5mm stereo jack. Operating range 20–20,000Hz

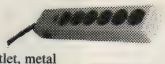
MMP2GX



CG26P3 6 outlets, plastic, 6' cord **4.95**
EPS10P 6 outlets, plastic, 10' cord **5.95**

- Metal, 1 MOV, Built–in circuit breaker, metal

CG26M 6 outlet **5.95**



- Modem/phone jack, 3 x2 outlet, metal EMI/RFI, 3MOV line protection

CG26D 6' Power Cord **5.95**
EPS23C 10' Power Cord **9.95**

Internet 8 Outlet Colored Power Strip with Transformer Space, 2 RJ45, 2 RJ11, RJ12, & 6' Cord

Protect your computer and modem from power surges and spike damage.
- Extra outlet for transformer.
- Lighted On/Off switch and circuit breaker.
- Line protection: 11 MOV; EMI.
- Power rating: 270 Joules.
- 125 Volts/15 Amp push-to-reset circuit breaker for over load protection. Ivory color.
- Comes with color label that allows you identify devices.
- 3 1/2" x 1 1/4" x 10 1/4".

EPS62IC **$19.95**

6 Outlet Plastic Power Strip with 3' Cord and Surge protection

- 6 heavy duty grounded outlets.
- Lighted On/Off switch.
- 125 Volts/15 Amp push-to-reset circuit breaker for over load protection. Ivory.
- Line protection: 1 MOV.
- Power rating: 70 Joules.
- 1 1/4" x 1" x 9 1/2".

EPS06Z $2.49 **1.99/24+**

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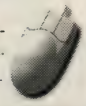
- Anti-static rubber/10 1/4" x 8 3/4"

OUPB	Blue		
OUPG	Gray	69¢	49¢/20+
OUPR	Red		

Rubber Mouse Pad

JMPWR	White	1.49	0.99/20+
JMPGR	Gray	1.49	0.99/20+
JMPBR	Blue	1.49	0.99/20+
OUH01	Mouse Pocket	79¢	59¢/20+

SERIAL MOUSE



DB9 Female connector, opto–mechanical with resolution from 400–4000 dpi.

JMSS8 2.49 $1.99/12+

Vinyl CD Binder Envelopes & Pages

Use your binder for CD storage. 3-Ring Vinyl Binder CD Page

XDBC2B 99¢ $0.75/10+

Clear CD envelopes. Folded over flap keeps CD from sliding out during handling, 1pcs

XDBC1E 10¢ $0.08/20+

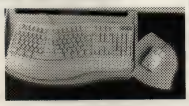
10/100BASE–T BULK STATION WIRE, CAT5

ONLY $54.95

- 1000' 8C Cable, Unshielded, Twisted pair. 100BASE–T, high speed data and LAN applications

CPH8TWR5	Solid	
CNWTC451ZZ	Stranded	$59.95
CNWTCE1ZG	Solid, 350Mhz	$79.95

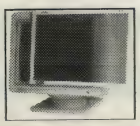
KEYBOARD ARM w/ TRAY



- Tray designed to hold MS keyboard and mouse
- Adjustable heavy-duty keyboard holder
- Slides in and out,up and down, tilts and swivels

XKDMA05M 39.95 $34.95/5+

MONITOR FILTER



- Reduce glare and reflection
- Enhances sharpness/contrast

MF14G for 15", Color 3.99

XMF17G for 17", Color 6.95

20 PIECE DELUXE TOOL KIT

- All the tools you need for your PC.

TK220 19.95 16.95/3+

Mid Tower PC Case With 250W ATX Power Supply

- Features three piece cover design-slides open and locks.
- Holds up to 2 fans for maximum ventilation.
- Measure: 18"x7.75"x16.25"; 3x3.5" & 3x5.25" bays; 7 slots.

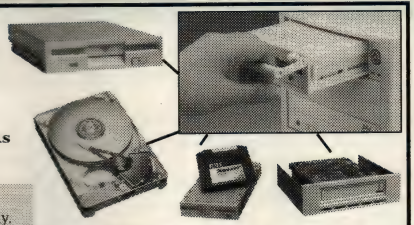
HTMH600AA ATX $34.95 $29.95/2+

Best Buy PS/2 Win 98 Keyboard

- PS/2 interface. Soft-touch, silent, and tactile
- Enhanced 104 keys layout
- Highly reliable membrane contact technology

KS260 Special Price $4.99

Unlimited Storage Capacity Exchange of 26GB or more!



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As Low As $8.95

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Inner HDD Tray for RH-10/12/20/40 IDE Only.

XMKXRI ..... 9.95 ..... 8.95/5+

ATA66 Inner HDD Tray for RH-10/12/20/40.

XMRLX10AU ..... 11.95 ..... 9.95/4+

RH-10 Complete Set w/ Mechanical Lock.

XMKMRI2 ..... 11.95 ..... 8.95/5+

RH-10 Complete Set w/ Electronic Lock.

XMKERI ..... 19.95 ..... 16.50/5+

RH-40 Complete Set w/ Electronic Lock, fan & Alum. tray For 3600-10000 RPM HDDs.

XMKRH40I ..... 44.95 ..... 39.95/5+

IDE, IDC 40 pin male, B group

Inner HDD Tray for RH-17/26/27/32 IDE Only

XMKXRIB ..... 10.95 ..... 9.50/5+

ATA66 Inner HDD Tray for RH-26/27/32

XMRLX57AU ..... 14.95 ..... 12.95/5+

RH-26 Complete Set w/ Mechanical Lock, auto door set, & plastic. For 3600-4500 RPM HDDs.

XMKRH26I ..... 12.95 ..... 9.95/5+

RH-27 Complete Set w/ Electronic Lock, auto door set, fan & plastic. For 4500-5400 RPM HDDs.

XMKRH27I ..... 14.95 ..... 11.95/5+

RH-32 Complete set w/ electronic Lock, auto door set, fan & Alum. tray. For 3600-10000 RPM HDDs.

XMKRH32I ..... 44.95 ..... 39.95/5+

New IDE Hot Swapable Rack Revolution of Mobile Rack Hot Swap Solution!

- Easy-to-use. Single 5.25" Bay for Multiple 3.5" Removable Storage Devices, Such as ZIPs, HDDs, MOs, LS120s, without Shutting Down The System.
- Comes with one inner tray, rack, Electronic key lock, software, and retail packaging.
- US Patent & CE Approval.

XMKARH37I ..... 49.95 ..... 44.95/5+

High End Wide SCSI Aluminum HDD Mobile Rack Ultra Wide SCSI, HDB68 pin female

RH-25 Complete set w/ Electronic Lock, Fan, aluminum Tray, & ID display. For 4500-10000RPM HDD's.

XMKERWFDF ..... 59.95 ..... 54.59/5+

RH-28 Complete set w/ Electronic Lock, 2 inner Fans, plastic Tray, & ID display. For 4500-10000RPM HDD's.

XMKERWD2F ..... 34.95 ..... 32.00/5+

RH-29 Complete set w/ Electronic Lock, 2 inner Fans, Alum. Tray, & ID display. For 4500-10000RPM HDD's, Black Color.

XMRL29WB ..... 79.95 ..... 69.50/5+

IEEE 1284 CABLES

- High speed data transfer without worry.
- 18 pair full wiring, double shielded.

CPR6D25C36 6' $2.49

CPR10D2C3 10' $3.95

SERIAL IEEE CABLES

- DB25 Male to DB25 Male.
- Switch box to PC; double shield.

CRSMM06BE 6' $3.49

BI–DIRECTIONAL PRINTER CABLES

- DB25 Male to CENT36 Male.
- 18 wires.

Assembled			
CP1806	6'	69¢	
Molded			
CPM1806	6'	79¢	

Spectra Headset-Stereo

- Lightweight stereo headset made of strong steel head band
- Adjustable microphone arm for flexible placement and movement.
- Electret condenser microphone.
- 6' cord length.

MHP802 $4.95

KEYBOARD EXTENSIONS

- Ideal for floor-mounted PCs.
- Designed for IBM style keyboard cables.

CK0506MM	6'	DIN5M–DIN5M	1.25
CK0506FM	6'	DIN5F–DIN5M	1.25
CK0512FM	12'	DIN5F–DIN5M	1.75
CK0606FM	6'	DIN6F–DIN6M, for PS/2	1.25

PS/2 MOUSE CABLES

- Use as PS/2 mouse and keyboard extension.

CK0606FM	6' Mini DIN6F to Mini DIN6M	99¢
CKB6MM06	6' Mini DIN6M to Mini DIN6M	99¢
CKB6MM10	10' DIN6M to DIN6M	$1.99
CKB6MF10	10' DIN6F to DIN6F	$1.99
CKB6MF25	25' DIN6M to DIN6F	$3.49

KB WRIST REST

KBWR Blue

XKBWRG Gray $1.99

Metal Thumb Screw For Case

- Easy to use and no tools needed.
- Replace Philip's head chassis screws. 50 pcs/bag

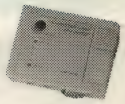
XAK05 $12.95

Universal Audio Cable

- 4 in 1 CD-ROM audio cable.
- Connects from CD-ROM to sound card.

ERCDROM $1.99 $1.75/5+

Compact 2 Port CPU Switch



- Share one monitor, keyboard, and mouse for 2 computers.
- PS/2 and Serial Mouse Emulation provided for system bootup
- Connector: Keyboard Mini DIN6F; Mouse: Mini DIN6F, VGA HD15M/F
- VGA resolution supports up to 1920x1440. Measure: 5" x 4" x 1.4"

WCSAC142 $74.95

- same as the above, supports PS/2 only

WCSAC12 $54.95

2 PCs to 1 Video Switch

- 2 computers share one monitor.
- Supports VGA, SVGA, and multisync monitors
- Automatic incoming signal selection
- Daisy chainable with Video splitter.

WVS201 $49.95

System Cooler

- Keep the interior of your high speed PC cool. Pushes the hot air out from CPU case.
- Uses PCI/ISA slot with 4-pin power connector.

BCFCF 8 x 8 CM fan $13.00 $9.95/3+

HDD Super Cooler with LCD display and temperature sensors

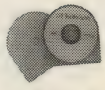
- Protects CPU and HDD against overheating simply by attaching sensor to any of them.
- Temperature and time display, audible overheat alarm.
- Built-in ventilation fans. Easy installation

XTPE2C $22.95 $19.95/3+

- Built-in backlight

XTPE2CE $27.95 $24.95/3+

CD Carrier for 2 CDs



- Holds 2 CD's.
- Transparent, high impact resistant & non-breakable. Easy to use and carry around.
- Works as mailing envelope

XDBC2G 1pcs $0.35

USB Port Hub

- Link up to 127 USB devices; Daisy chainable
- Gain high speed access data rate. PnP.
- Compatible with Windows 98

WUSB4	4port	$24.95
WUSB7	7port	$44.95

POP-UP CD Portable case

- Stores 10 CD's with colorful style.
- Built with spring push button.
- Space available to store CD manual.
- Protects from dust and organizes CD.
- 5.6"(W) x 6.9"(D) x 0.16"(H).

XDBSWB	blue color	$5.95
XDBSWR	red color	$5.95
XDBSWG	green color	$5.95
XDBSWP	purple color	$5.95
XDBSWO	orange color	$5.95

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SKU	CPU	PCI	ISA	AGP	MEM	CHPSET	STYLE	PRICE
ABVA6	PII-733	4	1	1	3/168	VIA	ATX	$84
ABZM6	PPGA	5	2	1	3/168	440LX	ATX	$91
ABVT6X4	PII-800	5	1	1	3/168	VIA133	ATX	$104
ABWX6	PPGA	5			2/168	810	ATX	$108
ABBF6	PII-600	6	1	1	3/168	440BX	ATX	$111
ABWB6	PII-733	3	1	AMR	3/168	810E	ATX	$119
ABBE62	PII-600	5	1	1	3/168	440BX	ATX	$127
ABBP6	DUAL	5	2	1	3/168	440BX	ATX	$136
ABKA7	K7	6	1	1	4/168	VIA	ATX	$166

ASUS

www.asus.com

SKU	CPU	PCI	ISA	AGP	MEM	CHPSET	STYLE	PRICE
ASP5AB	SOCKET7	3	2	1	3/168	M1541	AT	$86
ASP5A	SOCKET7	5	2	1	3/168	M1541	ATX	$91
ASP5AA	SOCKET7	5	2	1	3/168	M1541	ATX	$99
ASP299	PII-600	4	3	1	3/168	440ZX	ATX	$99
ASP299B	PII-600	3	2	1	3/168	440ZX	AT	$101
ASP3V4X	PII-733	6	1	1	4/168	VIA133	ATX	$104
ASP3W	PII-733	5	2		3/168	810	ATX	$105
ASP2BB	PII-600	3	2	1	3/168	440BX	AT	$122
ASP3BF	PII-600	5	2	1	4/168	440BX	ATX	$123
ASCUWE-RM	FCPGA	3		AMR	3/168	810	ATX	$136
ASP3WE	PII-733	6		AMR	3/168	810	ATX	$139
ASMEW	PPGA	6			3/168	810	ATX	$148
ASK7M-WA	K7	6	1	1	3/168	VIA	ATX	$152
ASP3C2000	PII-733	5	1	1	4/168	820	ATX	$153
ASK7V-WOA	K7	5		1	3/168	VIA	ATX	$155
ASK7V-WA	K7	5		1	3/168	VIA	ATX	$167
ASP2BL	PII-600	4	2	1	4/168	440BX	ATX	$167
ASP2BVM	PII-600	3	1	1	3/168	440BX	ATX	$172
ASP3CE	PII-733	5	1	1	2/RIMM	820	ATX	$187
ASP2BD	DUAL	4	2	1	4/168	440BX	ATX	$266
ASP2BS	PII-600	4	2	1	4/168	440BX	ATX	$314
ASP2BLS	PII-600	4	2	1	4/168	440BX	ATX	$349
ASP3CD	DUAL	5		1	3/RIMM	820	ATX	$367
ASP2BDS	DUAL	4	2	1	4/168	440BX	ATX	$444
ASP3CS	PII-733	5	1	1	2/RIMM	820	ATX	$414
ASXGDLS	DUALXEON	5	1	1	4/168	440GX	ATX	$734

FIC

www.fica.com

SKU	CPU	PCI	ISA	AGP	MEM	CHPSET	STYLE	PRICE
FICVA-503+	SOCKET7	3	3	1	3/168	VIA	AT	$73
FICPA-2013	SOCKET7	4	2	1	3/168	VIA/MVP	AT	$81
FICVB-601	PII-600	5	2	1	4/168	440BX	ATX	$82
FICVA-503A	SOCKET7	4	2	1	3/168	VIA/MVP	AT	$83
FICSD11	K7	5	1	1	3/168	VIA	ATX	$102

intel

www.intel.com

SKU	CPU	PCI	ISA	AGP	MEM	CHPSET	STYLE	PRICE
INBI440ZX	PPGA	2	1	1	2/168	440ZX	ATX	$94
INSE440BX2NA	PII-600	4	2	1	3/168	440BX	ATX	$102
INSE440BX2	PII-600	4	2	1	3/168	440BX	ATX	$105
INCC820NA	PII-700	5		1	2/168	820	ATX	$117
INCC820WA	PII-700	5		1	2/168	820	ATX	$119
INN400BX	DUAL	4	2		4/168	440BX	ATX	$449
INL440GX+	PII-600	6	1		4/168	82443GX	ATX	$519

SUPERMICRO

www.supermicro.com

SKU	CPU	PCI	ISA	AGP	MEM	CHPSET	STYLE	PRICE
SMP6SBA	PII-600	4	3	1	3/168	440BX	ATX	$99
SMP6DBE	DUAL	5	2	1	4/168	440BX	ATX	$166
SMP6DLE	DUAL	4	3	1	4/168	440LX	ATX	$174
SMP6SBU	PII-600	4	3	1	4/168	440BX	ATX	$299
SMS2DGE	DUALXEON	5	2	1	4/168	440GX	ATX	$304
SMP6DGS	DUAL	4	3	1	4/168	440GX	ATX	$379
SMP6DBU	DUAL	5	2	1	4/168	440BX	ATX	$394
SMP6DGU	DUAL	5	2	1	4/168	440GX	ATX	$427
SMS2DGU	DUALXEON	5	2	1	4/168	440GX	ATX	$469

TYAN

www.tyan.com

SKU	CPU	PCI	ISA	AGP	MEM	CHPSET	STYLE	PRICE
TYS1590S	SOCKET7	4	4	1	3/168	VIA	AT	$89
TYS1598S	SOCKET7	5	2	1	3/168	VIA	ATX	$95
TYS1854	PPGA/SLOT1	6	1	1	3/168	VIA	ATX	$96
TYS1830S	PII-550	3	3	1	4/168	449BX	AT	$112
TYS1598C2	SOCKET7	5	2	1	3/168	VIA	ATX	$113
TYS1832DL	DUAL	4	1	1	4/168	440BX	ATX	$164
TYS1952DLU	DUALXEON	5	1	1	4/168	440GX	ATX	$529

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CPU'S

ALL CPU'S HAVE A 1 YEAR WARRANTY WHEN PURCHASED WITH A CPU FAN. Those marked as "BOXED" have a 3 year warranty.

intel

www.intel.com

INTEL	486DX2 (PULLS)	66MHZ 5VOLT	$6
INTEL	486DX2	66MHZ 5VOLT	$9
INTEL	486DX4 (PULLS)	100MHZ 3VOLT	$20
INTEL	PENTIUM	133MHZ	$28
INTEL	PENTIUM	166MHZ	$42
INTEL	PENTIUM MMX	200MHZ	$39
INTEL	PENTIUM MMX	233MHZ	$39
INTEL	CELERON-A PPGA	366MHZ 128K	$73
INTEL	CELERON-A PPGA	400MHZ 128K	$79
INTEL	CELERON-A PPGA	433MHZ 128K	$80
INTEL	CELERON-A PPGA	466MHZ 128K	$84
INTEL	CELERON-A PPGA	500MHZ 128K	$94
INTEL	CELERON-A PPGA	533MHZ 128K	$121
INTEL	CELERON-A PPGA	566MHZ 128K	$147
INTEL	PENTIUM II	400MHZ 512K	$149
INTEL	PENTIUM II (BOXED)	400MHZ 512K	$161
INTEL	PENTIUM III	500MHZ 256K FCPGA	$209
INTEL	PENTIUM III 133MHZ BUS	533MHZ 256K FCPGA	$242
INTEL	PENTIUM III	550MHZ 256K FCPGA	$202
INTEL	PENTIUM III 133MHZ BUS	600MHZ 256K FCPGA	$244
INTEL	PENTIUM III	600MHZ 256K FCPGA	$247
INTEL	PENTIUM III	650MHZ 256K FCPGA	$299
INTEL	PENTIUM III 133MHZ BUS	667MHZ 256K FCPGA	$342
INTEL	PENTIUM III	700MHZ 256K FCPGA	$447
INTEL	PENTIUM III 133MHZ BUS	733MHZ 256K FCPGA	$474
INTEL	PENTIUM III	750MHZ 256K FCPGA	$549
INTEL	PENTIUM III	550MHZ 512K SECC	$218
INTEL	PENTIUM III 133MHZ BUS	600MHZ 256K SECC	$245
INTEL	PENTIUM III 133MHZ BUS	600MHZ 512K SECC	$257
INTEL	PENTIUM III	600MHZ 256K SECC	$262
INTEL	PENTIUM III	600MHZ 512K SECC	$364
INTEL	PENTIUM III	650MHZ 256K SECC	$329
INTEL	PENTIUM III 133MHZ BUS	667MHZ 256K SECC	$349
INTEL	PENTIUM III	700MHZ 256K SECC	$449
INTEL	PENTIUM III 133MHZ BUS	733MHZ 256K SECC	$579
INTEL	PENTIUM III	750MHZ 256K SECC	$589
INTEL	PENTIUM III	800MHZ 256K SECC	$739
INTEL	PENTIUM III 133MHZ BUS	800MHZ 256K SECC	$794
INTEL	PENTIUM III	850MHZ 256K SECC	$914
INTEL	PENTIUM III 133MHZ BUS	866MHZ 256K SECC	$929

AMD

www.amd.com

AMD	K6 II W/3D NOW	P300MHZ (66 MHZ)	$37
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AMD	K6 II W/3D NOW	P333MHZ (95 MHZ)	$38
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AMD	K6 II W/3D NOW	P450MHZ (100 MHZ)	$52
AMD	K6 II W/3D NOW	P475MHZ (100 MHZ)	$53
AMD	K6 II W/3D NOW	P500MHZ (100 MHZ)	$56
AMD	K6 III W/3D NOW	P400MHZ (100 MHZ)	$89
AMD	K7 ATHLON	P550MHZ (200 MHZ)	$169
AMD	K7 ATHLON	P600MHZ (200 MHZ)	$176
AMD	K7 ATHLON	P650MHZ (200 MHZ)	$214
AMD	K7 ATHLON	P700MHZ (200 MHZ)	$229
AMD	K7 ATHLON	P750MHZ (200 MHZ)	$299
AMD	K7 ATHLON	P800MHZ (200 MHZ)	$419
AMD	K7 ATHLON	P850MHZ (200 MHZ)	$629
AMD	K7 ATHLON	P900MHZ (200 MHZ)	$699
AMD	K7 ATHLON	P950MHZ (200 MHZ)	$749

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CREATIVE

CREATIVE LABS, INC. www.creative.com

CL45200	SOUND BLSTR AWE 64 ISA OEM	$29
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CL47900	SOUND BLSTR PCI 512 OEM	$46
CL48300	SOUND BLSTR LIVE VALUE PCI OEM	$51
CLXGAMERR	SOUND BLSTR LIVE X-GAMER RETAIL	$93
CLMP3+R	SOUND BLSTR LIVE MP3+ RETAIL	$93
CLPLATINUMR	SOUND BLSTR LIVE PLATINUM RET	$181

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72-PIN NON-PARITY

16MB	4X32	60NS	$32
32MB	8X32	60NS	$64
64MB	16X32	60NS	$99

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16MB	4X36	60NS	$42
32MB	8X36	60NS	$77
64MB	16X36	60NS	$119
128MB	32X36	60NS	$229

72-PIN EDO

8MB	2X32 EDO	60NS	$13
16MB	4X32 EDO	60NS	$28
32MB	8X32 EDO	60NS	$62
64MB	16X32 EDO	60NS	$72
128MB	32X32 EDO	60NS	$174

168-PIN LONG DIMMS EDO

32MB	4X64	60NS 3.3VOLT	$58
64MB	8X64	60NS 3.3VOLT	$82
64MB	8X72 (unbuffered)	60NS 3.3VOLT ECC	$97
64MB	8X72 (buffered)	60NS 3.3VOLT ECC	$97
128MB	16X64	60NS 3.3VOLT	$169
128MB	16X72 (unbuffered)	60NS 3.3VOLT ECC	$209
128MB	16X72 (buffered)	60NS 3.3VOLT ECC	$209
256MB	32X72 (buffered)	60NS 3.3VOLT ECC	$299

168-PIN LONG DIMMS SDRAM WITH EPROM (66MHz)

32MB	4X64	10NS	$26
64MB	8X64	10NS	$47
128MB	16X64	10NS	$96

168-PIN SDRAM WITH EPROM PC100/133

32MB	4X64	8NS	$27
64MB	8X64	8NS	$44
64MB PC133	8X64	7.5NS	$46
64MB	8X72	8NS 3.3VOLT ECC	$51
128MB	16X64	8NS	$94
128MB PC133	16X64	7.5NS	$95
128MB	16X72	8NS 3.3VOLT ECC	$107
128MB PC133	16X72	7.5NS 3.3VOLT ECC	$110
256MB	32X64	8NS	$189
256MB PC133	32X64	7.5NS	$194
256MB	32X72	8NS	$207
256MB PC133	32X72	7.5NS 3.3VOLT ECC	$211
512MB	64X72	8NS	$469

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www.matrox.com

MATMEC200	G200 8MB, SDRAM AGP OEM (FIXED)	$57
MAT400SDR1	G400 16MB, SDRAM AGP OEM (SING)	$116
MAT400DUA32	G400 32MB, SGRAM AGP OEM (DUAL)	$154
MAT400MAXD32	G400 32MB, SGRAM AGP OEM (DUAL)	$192

DIAMOND MULTIMEDIA

www.diamondmm.com

DISS8MB	SPEED STAR 8MB SDRAM AGP OEM	$26
DIST3S540	STEALTH III S540 16MB AGP OEM	$51
DISS16MB	SPEED STAR 16MB SDRAM AGP OEM	$52
DIST3S54032MB	STEALTH III S540 32MB AGP OEM	$69
DIV770-2S432MB	VIPER V770-2 W/TV 32MB AGP OEM	$132

ATI

www.atitech.com

ATI3DCHG8A	3D CHARGER AGP OEM VER 8MB EDO	$37
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ATIX998A	EXPERT 99 AGP OEM VER 8MB	$55
ATIXR16A	EXPERT RAGE AGP OEM VER 16MB	$71
ATIX200032A	EXPERT 2000 AGP OEM VER 32MB	$81
ATIRFPRO32	RAGE FURY PRO AGP OEM 32MB W/TV	$131
ATIAIW16A	ALL-IN-WONDER AGP OEM 16MB	$147
ATIAIW32A	ALL-IN-WONDER AGP OEM 32MB W/TV	$207
ATIAIW32PCI	ALL-IN-WONDER PCI OEM 32MB W/TV	$219
ATIRFMAX64	RAGE FURY MAX AGP OEM 64MB W/TV	$257

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www.stb.com

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STB300016MBTV	3DFX VOODOO 3 AGP OEM 16MB TV	$116
STB350016MBTV	3DFX VOODOO 3 AGP OEM 16MB TV	$172

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www.asus.com

ASV6600P32A	GE FORCE 256 AGP OEM 32MB	$207
ASV6600DEL32A	GE FORCE DEL 256 AGP OEM 32MB	$244
ASV6800P32A	GE FORCE 256 AGP OEM 32MB DDRAM	$262
ASV6800DEL32A	GE FORCE DEL 256 AGP OEM 32MB	$307

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UPGRADES FOR THE NEXT MILLENNIUM

HARD DRIVES

IDE DRIVES

ALL IDE DRIVES HAVE A MAXIMUM TRANSFER RATE OF 33.3 MB/SEC WHEN USED WITH AN UDMA IDE CONTROLLER. ALL DRIVES MARKED WITH (*) ARE ULTRA ATA/66 AND HAVE A 66 MB/SEC TRANSFER RATE WHEN USED WITH AN ULTRA ATA/66 CONTROLLER.

WESTERN DIGITAL www.wdc.com

ALL WESTERN DIGITAL IDE DRIVES LISTED HAVE A 3YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
WD43AA*	4300	9.5MS/5400	2048K	3.5"/1"H	$87
WD64AA*	6450	9.5MS/5400	2048K	3.5"/1"H	$89
WD84AA*	8400	9.5MS/5400	2048K	3.5"/1"H	$90
WD102AA*	10200	9.5MS/5400	2048K	3.5"/1"H	$101
WD136AA*	13600	9.5MS/5400	2048K	3.5"/1"H	$117
WD102BA*	10200	9 MS/7200	2048K	3.5"/1"H	$126
WD153BA*	15300	9 MS/7200	2048K	3.5"/1"H	$142
WD205AA*	20500	9.5MS/5400	2048K	3.5"/1"H	$144
WD205BA*	20500	9 MS/7200	2048K	3.5"/1"H	$169
WD307AA*	30700	9.5MS/5400	2048K	3.5"/1"H	$186

FUJITSU www.fujitsu.com

ALL FUJITSU IDE DRIVES LISTED HAVE A 3YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
FUJ3043AT	4300	10MS/5400	128K	3.5"/1"H	$82
FUJ3064AT	6400	10MS/5400	128K	3.5"/1"H	$83
FUJ3084AT	8400	10MS/5400	128K	3.5"/1"H	$92
FUJ3130AT*	13000	10MS/5400	512K	3.5"/1"H	$116
FUJ3017AT*	17000	10MS/5400	512K	3.5"/1"H	$132
FUJ3024AT*	20400	10MS/5400	512K	3.5"/1"H	$142
FUJ3273AT*	27300	10MS/5400	512K	3.5"/1"H	$204

IBM www.ibm.com

ALL IBM IDE DRIVES LISTED HAVE A 3YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
IBM352030*	20300	8.5 MS/5400	512K	3.5"/1"H	$159
IBM352500*	25000	8.5 MS/5400	2048K	3.5"/1"H	$199
IBM372050*	20500	9 MS/7200	2048K	3.5"/1"H	$172
IBM373420*	34000	9 MS/7200	2048K	3.5"/1"H	$369

Maxtor www.maxtor.com

ALL MAXTOR IDE DRIVES LISTED HAVE A 3YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
MAX1025400*	10200	9 MS/5400	2048K	3.5"/1"H	$102
MAX1027200*	10200	9.5 MS/7200	2048K	3.5"/1"H	$119
MAX1365400*	13600	9 MS/5400	2048K	3.5"/1"H	$117
MAX1367200*	13600	9.5 MS/7200	2048K	3.5"/1"H	$134
MAX2045400*	20400	9.5 MS/5400	2048K	3.5"/1"H	$138
MAX2047200*	20400	9.5 MS/7200	2048K	3.5"/1"H	$167
MAX2735400*	27300	9 MS/5400	2048K	3.5"/1"H	$186
MAX2737200*	27300	9.5 MS/7200	2048K	3.5"/1"H	$212
MAX4095400*	40900	9 MS/7200	2048K	3.5"/1"H	$269
MAX4097200*	40900	9.5 MS/7200	2048K	3.5"/1"H	$319

Quantum www.quantum.com

ALL QUANTUM IDE DRIVES LISTED HAVE A 3YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
QU313000CX*	13000	9.5MS/5400	512K	3.5"/1"H	$129
QU320400CX*	20400	9.5MS/5400	512K	3.5"/1"H	$149
QU315000LB*	15000	8.9MS/5400	512K	3.5"/1"H	$131
QU315000LM*	15000	8.9MS/7200	2048K	3.5"/1"H	$149
QU326000LA*	26000	8.9MS/5400	512K	3.5"/1"H	$172

NOTEBOOK DRIVES

TOSHIBA www.toshiba.com

ALL TOSHIBA IDE NOTEBOOK DRIVES LISTED HAVE A 1YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
TO4313MAT	4300	13MS/4200	128K	2.5"/8.4MM	$144
TO6014MAP	6000	13MS/4200	1024K	2.5"/9.5MM	$149
TO6412MAT	6400	13MS/4200	512K	2.5"/8.4MM	$154
TO6414MAP	6400	13MS/4200	1024K	2.5"/9.5MM	$176
TO1214GAP	12000	13MS/4200	1024K	2.5"/9.5MM	$227
TO1814GAV	18100	13MS/4200	1048K	2.5"/12MM	$322

IBM www.ibm.com

ALL IBM IDE NOTEBOOK DRIVES LISTED HAVE A 1YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
IBM206480	6480	12MS/4200	512K	2.5"/9.5MM	$159
IBM212000	12000	12MS/4200	512K	2.5"/9.5MM	$227
IBM214000	14000	12MS/4200	512K	2.5"/17MM	$349

Ultra Narrow & Wide SCSI DRIVES

WESTERN DIGITAL

www.wdc.com

ALL WESTERN DIGITAL SCSI DRIVES LISTED HAVE A 5YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
WD18300LW	18300	6.9MS/7200	4096K	3.5"/1"H	$237
WD91FN 50PIN	9100	6.6MS/10000	2048K	3.5"/1"H	$264
WD91FG	9100	6.6MS/10000	2048K	3.5"/1"H	$264
WD183FN 50PIN	18300	6.6MS/10000	2048K	3.5"/1"H	$364
WD183FG	18300	6.6MS/10000	2048K	3.5"/1"H	$364

Seagate

www.seagate.com

ALL SEAGATE SCSI DRIVES LISTED HAVE A 5YR WARRANTY

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
ST34520N	4500	10 MS/7200	512K	3.5"/1"H	$192
ST34520W	4500	10 MS/7200	512K	3.5"/1"H	$192
ST39140N	9100	10 MS/7200	512K	3.5"/1"H	$247
ST39140W	9100	10 MS/7200	512K	3.5"/1"H	$247
ST39236LW	9200	5.8MS/7200	2048K	3.5"/1"H	$229
ST39216W	9200	5.8MS/7200	2048K	3.5"/1"H	$229
ST39216N	9200	5.8MS/7200	2048K	3.5"/1"H	$229
ST318275LW	18200	7.6MS/7200	1024K	3.5"/FH	$359
ST318275FC	18200	7.6MS/7200	1024K	3.5"/FH	$359
ST318416N	18400	5.8MS/7200	2048K	3.5"/1"H	$349
ST318416W	18400	5.8MS/7200	2048K	3.5"/1"H	$349
ST318436LW	18400	5.8MS/7200	2048K	3.5"/1"H	$349
ST318404LW	18400	5.2MS/10,000	4096K	3.5"/FH	$519
ST136475LW	36400	7.6MS/7200	1024K	3.5"/FH	$779
ST136403LW	36400	5.2MS/10,000	1024K	3.5"/FH	$867
ST136403FC	36400	5.2MS/10,000	1024K	3.5"/FH	$867
ST336704LW	36700	5.2MS/10,000	4096K	3.5"/FH	$909
ST150176LW	50000	7.4MS/7200	1024K	3.5"/FH	$864
ST150176FC	50000	7.4MS/7200	1024K	3.5"/FH	$864
ST173404LW	73400	5.6MS/10,000	4096K	3.5"/FH	$1579

Quantum

www.quantum.com

ALL QUANTUM SCSI DRIVES LISTED HAVE A 5YR WARRANTY.

MODEL#	CAP.(MB)	ACCESS/RPM	CACHE	FORM/HT	PRICE
QUTN318200LW	18200	5MS/10000	2048K	3.5"/1"H	$529
QUAL336400LW	36400	6.9MS/7200	2048K	3.5"/1"H	$809
QUTN336400LW	36400	5MS/10000	2048K	3.5"/1"H	$969

CD/CDRW/DVD

TOSHIBA www.toshiba.com

MODEL#	SPEED/TRANS	INTERFACE	ACCESS	CACHE	PRICE
TO6702B	48X/7200KB	ATAPI	85MS	256K	$54
TO6401	40X/6000KB	SCSI-2	85MS	256K	$79
TODM1302KKIT	6X-32X DVD	ATAPI/DCODR	135/90MS	256K	$199

MITSUMI

www.mitsumi.com

MODEL#	SPEED/TRANS	INTERFACE	ACCESS	CACHE	PRICE
MITFX4820	48X/7200KB	ATAPI	85MS	128K	$46
MITCDRW4804TE	4X/4X/24X	ATAPI	135MS	2048K	$162

YAMAHA

www.yamaha.com

MODEL#	W/RW/READ	INTERFACE	ACCESS	CACHE	PRICE
YACRW8424SOEM	8X/4X/24X	SCSI	140MS	4096K	$229
YACRW8424EOEM	8X/4X/24X	ATAPI	140MS	4096K	$244
YACRW8424E	8X/4X/24X	ATAPI	140MS	4096K	$284
YACRW8424S	8X/4X/24X	SCSI	140MS	4096K	$279

SONY

SY48XIDE	48X/7200KB	ATAPI	85MS	128K	$42
SYCRX140E/CH	8X/4X/32X	ATAPI	150MS	4096K	$259
SYCRX140S/CH	8X/4X/32X	SCSI	150MS	4096K	$274
SYCRX145E/CH	10X/4X/32X	ATAPI	150MS	4096K	$274

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3Com www.3com.com

3C3595	56 KBPS DATA/14.4kbps FAX INT PCI V.90 OEM/WIN	$27
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3C2975	56 KBPS DATA/14.4kbps FAX INT PCI V.90 OEM/NO VOICE	$32
3C2974	56 KBPS DATA/14.4kbps FAX INT PCI V.90 OEM/VOICE	$33
3C2977	56 KBPS DATA/14.4kbps FAX INT PCI V.90 OEM/NON WIN	$46
3C2976	56 KBPS DATA/14.4kbps FAX INT PCI V.90 OEM/NON WIN	$57

CREATIVE www.creative.com

CLDI5655	56 KBPS DATA/14.4kbps FAX INT PCI V.90 VOICE	$29
CLDI5660	56 KBPS DATA/14.4kbps FAX INT PCI V.90 NON WIN	$29

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VIGA655	15"	.27DP	1280 X 1024	$207
VIE771	17"	.27DP	1280 X 1024	$214
VIG773	17"	.26DP	1280 X 1024	$284
VIGS771	17"	.27DP	1280 X 1024	$287
VIM70	17"	.27DP	1280 X 1024	$272
VIGT775	17"	.25DP	1600 X 1280	$339
VIGA771	17"	.27DP	1280 X 1024	W/SPEAKERS $369
VIPT775	17"	.25DP	1600 X 1280	$449
VIE790	19"	.26DP	1600 X 1200	$352
VIPS790	19"	.25DP	1600 X 1280	$487
VIG790	19"	.26DP	1600 X 1280	$489
VIPF790	19"	.25DP	1600 X 1280	$462
VIG810	21"	.25DP	1600 X 1280	$764
VIP810	21"	.25DP	1600 X 1200	$839
VIP815	21"	.25DP	1800 X 1440	$879
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MODEL/ SPECS	Bare Bone	Dimension W.D.H	I/O ports	5.25"	3.5"	PCI	PCI ISA
105LPX	330	12.4x14.5x3.4	PS2 KB,mouse,VGA,USB,RJ45,2S,1P,AUDIO	1	1/1	2/1	or 1
105NLXBX	460	11.2x13.5x3.4	PS2 KB,mouse,VGA,USB,RJ45,2S,1P,AUDIO	w/FD & Slim CD		2/1	or 1
108NLX	330	11x13.6x3.4	PS2 KB,mouse,VGA,USB,RJ45,2S,1P,AUDIO	1	1/1	2/1	or 1
BX	410	11x13.6x3.4	PS2 KB,mouse,VGA,USB,RJ45,2S,1P,AUDIO	Slim CD(op)	1/1	2/1	or 1
136AT AIO	250	11.8x13.5x3	AT KB, VGA, 2S, 1P	0	1/1	2/1	or 1
168NLX	330	15.25x14.5x3.5	PS2 KB,mouse,VGA,USB,RJ45,2S,1P,AUDIO	1	1/1	2/1	or 1
192 370/II	230/240	12.1x16.5x3.5	PS2 KB, mouse, VGA,2S,1P	1	1/1	2	& 1

169/370 255 12.5x14.3x3.4 PS2 KB, MOUSE, NET,VGA,3S,1P 1/0 1/1 2&1
182LPX 260 13.75X15.2X2.9 KB,MOUSE,NET,VGA,2S,1P 0/0 2/0 0&2

MB SIZE = MOTHERBOARD SIZE • F= FULL SIZE • B= BABY SIZE • X=ATX • M. ATX=Micro ATX
R= REDUNDANT POWER SUPPLY WITH HARDSWAP • 250XB=Ball Bearing

Case Specification & Price List

Model	Price	Dimension W.D.H.	MB Size	5.25 Ext.	3.5 Int./Int.	P.S.
R02 BARE	300	19x10.3x3.5	M.ATX	1/0	1/1	150W
R04B/W	290	19x24.3x3.5	ATX	1/0	1/3	250W
R08 B/W	1675	19x22x3.5				
R10B/W/X	245/270	19x18x7	B/ATX	3/0	1/1	250W/250X
R12 B/W/X	305/325	19x19.7x7	B/ATX	4/0	1/0	250W/250X
R13 X	280	19x18x7	B/ATX	3/0	1/1	250W/250X
R14 B/W/X	230	19x21x7	B/ATX	3/0	1/3	300X
R16 B/W/X	240/270	19x18x7	B/ATX	3/0	1/2	250W/250X
R20B/W	335	19x15.75x7		8/0		300W
R21B/W	335	19x18x7		8/0		300W
R22X/RX/B/W	635/950	19x23.3x10.5	ATX	8/0	1/0	300X/300RX
R26X/RX/B/W	630/850	19x22.6x10.7	ATX	4/0	2/4	300X/300RX
R28	300	19x17x8.7		8/0		300W
RSP	18	5.8x9.3x1.6			1	
RSM168/179	65/75	5.8x9.3x1.6			1	
001B	75	10x11.5x3		1/0		60W
001B1	65	8.3x10.6x2.8		1/0		50W
002B	88	6.9x14.6x5.8		2/0		60W
002B1	78	7.5x11.2x6.5		2/0		80W
004B	110	6.8x15.3x9.3		4/0		230W
004B1	100	7.5x17.3x10.2		4/0		200W
007B	185	7x15.8x13		7/0		250W
008B	280	8.4x20.2x18.3		8/0		300W
008B1	180	7.5x17.9x17.1		8/0		250W
105LPX/NLX	330/460 II	12.4x14.5x3.4	LPX	1/0	1/1	85W
108NLX bare	330/410 II	11x13.6x3.4	NLX	1/0	1/1	135W
116	85/96	11.8x13.5x3	AIO	0/0	1/1	80W
136/I	85/96	11.8x13.5x3	AIO	0/0	1/1	80W
168	85	15.25x14.5x3.5	NLX	1/0	1/1	145W
169	255	12.5x14.3x3.4	LPX	1/0	1/1	150W
182	260	13.75x15.2x2.9	AIO		2/0	150W
192	85	13.1x16.5x3.5	LPX	1/0	1/1	150W
224	75	17.4x18.8x6.1	ATX	3/0	2/2	230X
225	65	14.8x17.3x5.3	M.ATX	2/0	1/2	150X
254	85	17x16.3x6.3	B	3/0	2/2	250W
267	75	16.8x16.8x6.2	ATX	2/0	2/1	250X
271	90	17.3x15.9x5.5	ATX	2/0	1/1	250XB
288	75	16.9x17x6	ATX	3/0	2/1	230X
325B	75	8x18.5x17	ATX	3/0	2/1	235X
327	72	7.5x16.5x17.3	ATX	3/0	2/2	230X
328	75	7.5x17.6x16.7	ATX	3/0	2/1	230X
336	55	7.2x13.5x12.3	M. ATX	2/0	2/1	145W
338	55	7x14.7x13.8	M. ATX	2/0	2/1	145W
348	85	7.9x17.4x17.2	ATX	3/0	1/2	230X
349	55	8.4x17x15.8	ATX	3/0	1/3	230X
355	90	9.5x16.6x15.2	ATX	3/0	2/1	230X
360	65	9x17x15	ATX	3/0	3/1	230X
370	89	8.3x17.3x16.1	ATX	3/0	2/2	250WB
383	85	8.3x16.8x16.1	ATX	3/0	1/3	230X
396	60	8.3x17x15.5	ATX	3/0	1/3	230X
401X	110	8.5x17.3x18	ATX	2/0	2/2	250X
406	85	8.2x19.8x18.4	ATX	3/0	1/5	250X
408	85	8.2x19.8x18.4	ATX	3/0	1/5	250X
418	75	7.5x16.8x19.3	ATX	3/0	3/1	230X
423	70	7.7x16.6x18.1	B	4/0	1/4	250W
424	70	7.5x18.9x16.7	ATX	4/0	2/1	250X
426B/W	80	7.5x17.5x19.3	ATX	3/0	2/2	250X
436	70/85	8.6x18x15.6	ATX	3/0	2/2	250/300X
455	110	8.5x17.5x18.6	ATX	4/0	2/3	250X
456	85	7.5x17.8x17	ATX	3/0	2/3	250X
466	85	7.4x18.7x16.8	ATX	3/0	2/3	250X
468	85/100	7.5x16.7x18.8	ATX	3/0	2/4	250X/300X
469*	85	7.8x16.5x17	ATX	2/0	1/3	250X
470	110	8.3x17.3x21.3	ATX	4/1	1/2	250XB
483	90	8.3x18.8x17.3	ATX	4/0	1/3	250WX
486	67	9.6x19.5x17	ATX	4/0	2/1	250WX
487**	85	7.3x17x17	ATX	3/0	1/2	230X
488	85	7.75x16.7x19.1	ATX	3/0	2/2	250X
489**	85	7.3x17x17	ATX	3/0	1/2	235X
501	185	8.25x17.2x23.8	ATX	4/0	2/4	300X
503R/RX/B/P	540	14.8x20.4x18.4	F/ATX	8/0	2/4	300R/RX
503/X/B/P	325	14.8x20.4x18.4	F/ATX	8/0	2/4	300W/300X
505/X	585	14.6x23x26.8	F/ATX	12/0	1/8	300W/WX
505R/RX	765	14.6x23x26.8	F/ATX	12/0	1/8	300R/RX
506X/RX	170/480	7.8x16.5x24.4	ATX	6/0	2/2	300X/300RX
518	105/120	7.5x16.6x24.4	ATX	6/0	3/1	230X/300X
524	380	13.9x25.6x19.1	ATX	7/0	1/2	300RX
526B/W	105/120	7.5x17.5x24.5	ATX	6/0	1/4	250X/300X
528	105/120	7.5x16.5x24.8	ATX	6/0	1/5	250X/300X
536X	93/108	7.8x17x24	ATX	5/0	1/5	250X/300X
538	290	8x20.5x24.5	ATX	5/0	1/6	300RX
541X	105/120	7.5x16.6x25.2	ATX	6/0	1/5	250X/300X
555B/W/R	440/680	11x19.3x23.6	F	4/8	0/0	400W/300R
555X/RX	440/700	11x19.3x23.6	ATX	4/8	0/0	300X/300RX
558/B/W/R	160/410	8.7x17.8x26.8	F	5/3	2/0	300W/300R
558X/RX	160/410	8.7x17.8x26.8	ATX	5/3	2/0	300X/300RX
559	65	7.3x16.3x24.5	ATX	6/0	3/2	250W
562X/R/B/W	250/470	8.7x17.9x26.8	ATX	9/1	1/0	300X/300RX
563/RB/W	160/390	8.7x17.9x26.8	F	10/0		300W/300R
563X/RB/W	160/390	8.7x17.9x26.8	ATX	10/0		300X/300RX
565	195	9.25x18.3x21.2	XEON/ATX	4/0	2/4	300X
568	105/120	7.5x17x22.8	ATX	5/0	2/4	250X/300X
569/X/B/W	225	13.5x17.8x14	B/ATX	4/2	0/8	300W/300X
570X/RX	150/400	8.3x17.3x26.4	ATX	7/1	1/2	300X/300RX
571X/RX	160/400	8.3x17.3x26.4	ATX	6/1	1/2	300X/300RX
582	105/120	7.8x16.5x23.2	ATX	5/0	1/7	250X/300X
588	105/120	7.8x16.5x23.3	ATX	5/0	1/3	250X/300X
1400R/RX	750	16x20x24	F/ATX	14/0		300RX
1620R/RX	990	16.5x20.3x34.3	F/ATXx2	16/0		300RX

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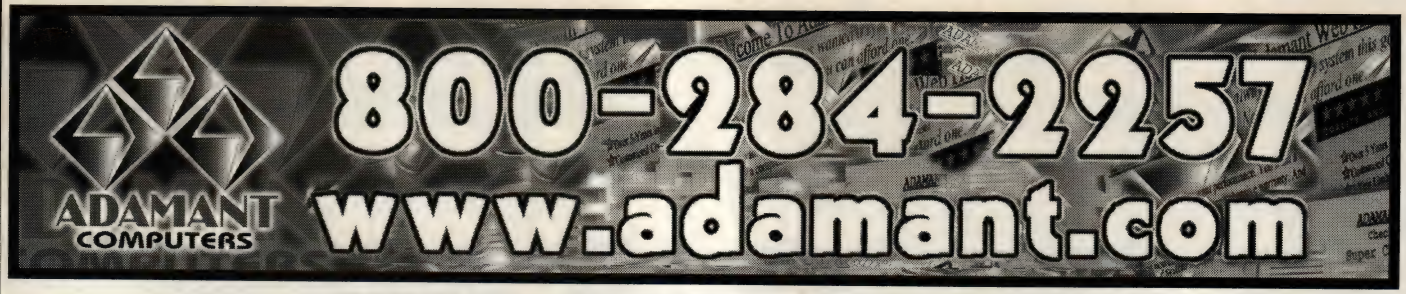

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- 10x Max Variable DVD-ROM
- Sound Blaster Live Value Sound Card
- V.90 Diamond Standard 56k Fax/Modem
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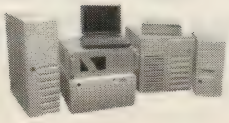

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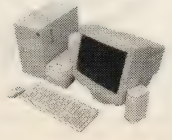

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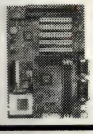

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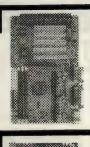

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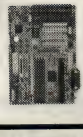

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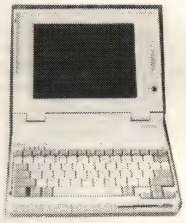

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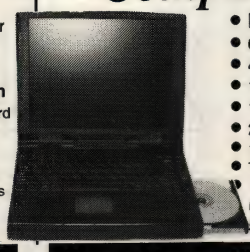

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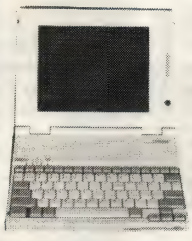

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TUNE-UP

make the palm connection

BY BILL DYSZEL

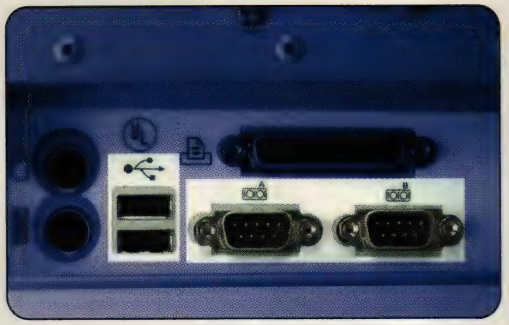
What's the hip new way to manage your fast-paced 21st-century life? With a personal digital assistant (PDA), of course. Whether you received one as a gift or bought one for yourself, odds are it's running the Palm operating system. Palm OS devices include the new color Palm IIIc, the Handspring Visor, and the Qualcomm PDQ phone with a built-in Palm organizer. A contingent of worthy PDAs use Microsoft's Windows CE operating system, but for our Tune-Up project this month, we settled on the popular Palm V.

Even though a Palm device is a real computer, the most efficient way to use one is as an extension of your desktop or notebook computer. The folks at Palm strongly recommend using a Palm device and your computer together to simplify data entry and safeguard your precious data. Under ideal circumstances, connecting your Palm device to a PC is a no-brainer—just insert the Palm Desktop CD into your CD-ROM drive and follow the simple instructions that appear on the screen. But in real life, a few problems often pop up along the way to getting your desktop computer and your Palm organizer on speaking terms.

Most people are familiar with personal information managers (PIMs). These programs have long been popular for managing business contacts and appointments, as well as other daily details. Currently, Microsoft Outlook is one of the most widely used PIMs, but Lotus Organizer, Act, GoldMine, and a variety of other organizers are longtime favorites. A Palm organizer begins as a PIM that you carry around with you. But a Palm device also comes with its own PIM software, Palm Desktop, which runs on your PC and contains a duplicate of the data on your Palm organizer. As PIMs go, it's a pretty good one, and the price is right—it comes free with your Palm device.

If you're deeply attached to another desktop PIM and don't want to give up using it, you should be able to connect it to your Palm organizer, as well. Contact the company that sells your PIM (or check out its Web site) to find out how to make the connection. Because Microsoft Outlook is so popular, the Palm installation program will automatically detect the presence of Outlook on your computer and ask if you want to connect your Palm to it. If you answer yes, the Palm Desktop installer sets up a program called Pocket Mirror, which makes your connection to Outlook completely transparent.

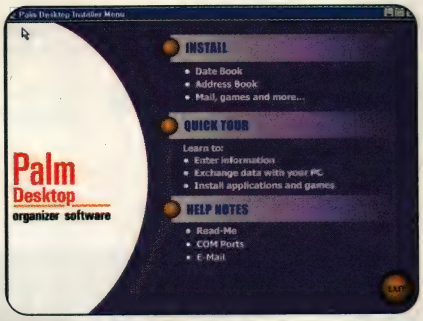
STEP ONE



You'll need a free serial port to connect your Palm to your PC. If one isn't available, you can use an optional USB port connector.

To begin installing your Palm organizer, plug the Palm cradle into the serial port on the back of your computer. For some people, finding an empty serial port can be the trickiest part of installing the Palm, because many computers only include one, and that port is often occupied by an external modem, digital camera, or other device. You could always add an extra serial port by purchasing a kit from your favorite computer store. If your computer has a free USB port, you can purchase a USB adapter for the Palm cradle to get around the lack of an available serial port. For our scenario, we'll presume that you have a free serial port and can go right ahead installing Palm Desktop.

STEP TWO



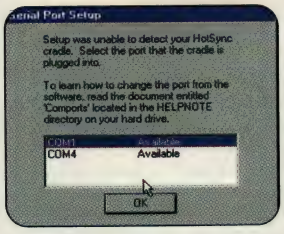
Install the Palm Desktop software from the Palm Desktop CD.

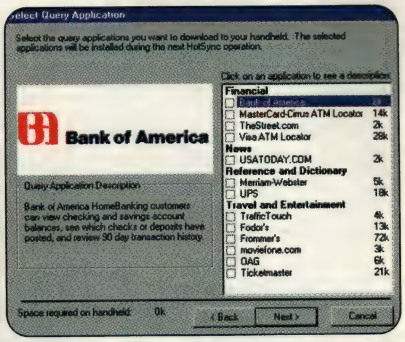
Once you've plugged the cradle into your system's serial port, insert the Palm Desktop CD, wait for the menu screen to appear, then choose Install. The installer will ask you if you've connected the cradle; say yes.

Next you need to choose your setup type. In most cases, the Typical setup will suffice. You might want to try the Custom install option if you want to exclude one or more parts of the program. There's no harm done if you choose Typical to install everything.

STEP THREE

If the Palm Desktop installer doesn't automatically detect the serial port to which you've connected the cradle, a screen will appear asking you which port you've chosen. Don't worry if you're not sure which of your COM ports goes by which number. Few people remember with certainty which of their serial ports is which—the rest of us just have to guess. If you answer the question wrong, just go through the rest of the installation, then change the port setting in the HotSync Manager when you're through.


Setup was unable to detect your HotSync cradle. Select the port that the cradle is plugged into.
To learn how to change the port from the software, read the document entitled 'Comports' located in the HELPNOTE directory on your hard drive.
COM1
COM4
Available
OK



If setup doesn't automatically detect the Palm cradle, you need to tell it to which port you've attached the cradle. Palm VII owners have the option of installing a number of Internet applications.

If you're installing a Palm VII, you'll also see a screen from which you can choose to install applications for getting information from the Internet. Check the boxes for the apps you want, then click Next to complete the installation process.

STEP FOUR

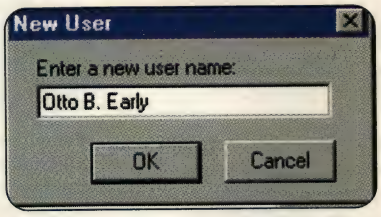
As soon as you complete the software installation, put the Palm device in the cradle and press the cradle's HotSync button. If the HotSync dialog box appears on your computer's screen within 5 to 10 seconds, everything is installed properly. If nothing happens on the desktop computer when you press the HotSync button, you probably need to set the HotSync program to use a different COM port. Right-click the HotSync Manager icon in the System Tray, choose Setup, click the Local tab, and choose a different COM port from the drop-down list. Click OK to close the HotSync Manager, then press the HotSync button on the cradle again. Keep trying COM ports this way until one of them works.

Starting the HotSync process is as simple as pressing the HotSync button on the Palm's cradle.

STEP FIVE

The first HotSync you perform when you install your Palm organizer is important because it asks you to assign a name to your Palm. HotSync Manager uses this name to make sure that it's synchronizing the right data with the right organizer. Otherwise, if someone were to put another Palm device in your cradle, it would combine your data with that one. This way, you can even HotSync several different Palm organizers with the same desktop computer, and the Palm Desktop software will know which organizer is which.

If you use Microsoft Outlook as your PIM, however, you can only HotSync one Palm device to any individual Outlook profile. You'll need to create separate Outlook profiles for each person if you want to HotSync several Palm devices to the one computer running Outlook.



The first time you HotSync your Palm with your PC, you'll need to assign a user name to the Palm device.

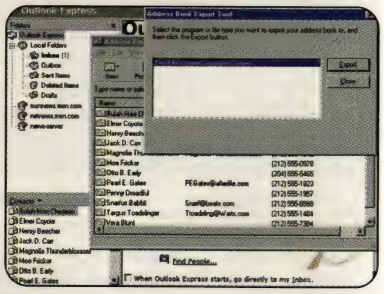
Online Resources

Something about the Palm device arouses an almost unnatural level of interest from Palm aficionados. As you'd expect, hundreds of Web sites are devoted to Palm computing. The best place to look for help with your Palm unit is Palm's own Web site ***(www.palm.com)***, where you'll find product information, technical support, and a wide range of accessories available for purchase. A popular site for downloads is Handango ***(www.handango.com)***, formerly known as PalmCentral, which carries most of the nearly 5,000 shareware titles written for the Palm OS. Handango is also a good place to jump onto the PalmPilot WebRing ***(www.handango.com/webring.shtml)***, which will lead you to more than 600 sites for Palm fans. If you want to find the best price on a new Palm device, you can do a price search at computershopper.com. ▼

TUNE-UP

STEP SIX

Not only do many people use Outlook Express as an e-mail program, but some also use it as a sort of poor man's PIM—as an address book, but with no appointment calendar or to-do lists. Outlook Express doesn't HotSync with the Palm, so if you currently use Outlook Express, switching to a full-bodied PIM that will enable you to synchronize your data with your new Palm device would be a grand idea. Your best bet may be Palm Desktop. As luck would have it, you can easily port all of your data over from Outlook Express to Palm Desktop, so you won't have to enter it all again.

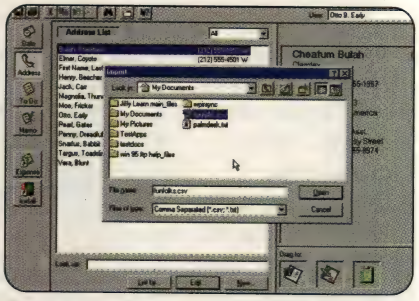


If you've been using Outlook Express, you can easily export your address book to a file.

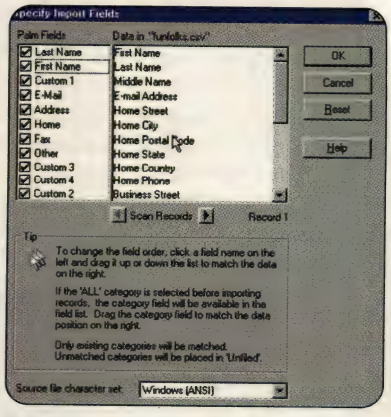
Like many PIMs, Outlook Express can export your address listings in a comma-separated-value (CSV) file, and Palm Desktop can import addresses in this same format. To export your addresses from Outlook Express, choose Tools/Address Book to reveal the Address Book dialog box. Then choose File/Export/Other Address Book from the Address Book menu bar. From the list of file types in the Address Book Export Tool dialog box, choose "Text File (Comma Separated Values)" and click the Export button. Type a filename in the CSV export dialog box and click Next. Select the address fields from the next dialog box and click Finish.

STEP SEVEN

Now you're ready to import your addresses into the Palm Desktop program. Launch Palm Desktop, click the Address Button, and choose File/Import from the menu bar. When the Import dialog box opens, choose "Comma Separated (*.csv; *.txt)" from the file-type drop-down list, and point the software to the same directory where you saved the CSV file you exported from Outlook Express. When you find the file, double-click on it to open it. The Specify Import Fields dialog box should appear, indicating how Palm Desktop has interpreted the information you've moved over from Outlook Express.

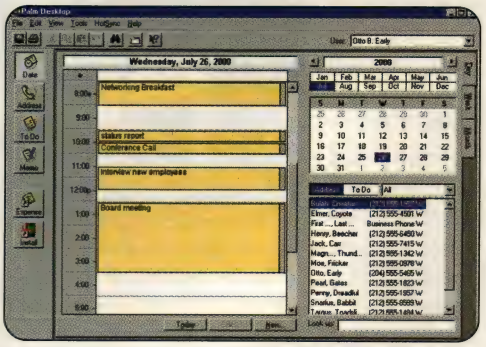


Once you've exported your address book from Outlook Express, you can import the information to Palm Desktop.



Before you complete the import process, make sure to match the fields coming from Outlook Express with the fields Palm Desktop already uses.

The left side of the window displays a list of Palm Desktop's address fields, while the right side shows the names of fields imported from Outlook Express. You'll need to drag the name of each field on the left side up or down so that it corresponds with the location of the information on the right. For example, the Palm field for "E-Mail" needs to be next to the imported file's field for "E-mail Address" or its equivalent. After you match up all the fields, click OK to import your new set of addresses into Palm Desktop.



Whenever you synchronize your Palm device to Palm Desktop, all your information is duplicated in both places.

Once you fill Palm Desktop with names and addresses and HotSync them to your Palm organizer, you are ready to do business with the best of them, anywhere, anytime. You can then start using your Palm organizer to keep track of your appointments and tasks. You'll wonder how you ever got along without it. ▼

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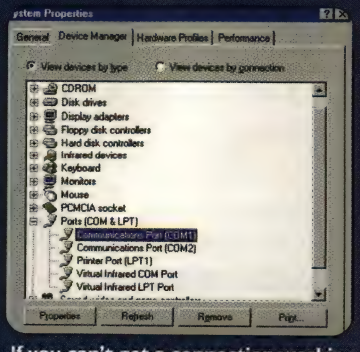
Serial-Port Solution

If your system uses Windows 95 or 98, and you can't get the serial port to work with your Palm cradle, one desperate but sometimes successful approach is to uninstall and reinstall all of your COM and LPT ports. If you uninstall all of your ports through Windows' Device Manager, then restart the machine, Windows' Plug and Play should detect your hardware and configure everything automatically. Just right-click the My Computer icon on your desktop, choose Properties, then click the Device Manager tab. Click the plus sign next to the "Ports (COM & LPT)" heading to see a list of all of your serial and parallel ports. Click each one to select it, then click the Remove button. ▼



If you can't get a connection working between your Palm device and your computer, you might need to check the COM-port configuration in Windows' Device Manager.

SECTION CONTINUES ON PAGE 296

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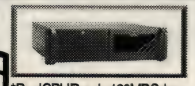
*Intel 10-100BT NIC onboard
***Server Case,3x400W Redundant**
*MS-Mouse & 104 Keys Keyboard

Xeon-450-Dual/Quad....$7999/$9299
Xeon-500-Dual/Quad..$8899/$10099
Xeon-550-Dual/Quad..$9029/$11179
Adaptec Raid Controller.....$Call
Add MS-NT 4.0 Server (5-25)..$Call

4U Web Server



*Dual CPU Ready,128MB Sdram
*Adaptec 7890 Ultra 2 W/S3(80MB)
***9GB U2W/S3 hard drive**
*100MB IDE Zip,1.44MB Floppy
*48x Speed IDE CD-ROM
*Trident T975,3D AGP w/4MB
*Intel Express Pro PCI 10/100BT
***4U/19" Rackmount,w/250W ATX**
*MS-Mouse & 104 keys Keyboard

Dual Pentium-2-450.....$1529
Dual Pentium-3-500.....$1579
Dual Pentium-3-550.....$1649
Dual Pentium-3-600.....$1929
Dual Pentium-3-650E.....$1949
Dual Pentium-3-700.....$2149
Linux 6.1 (pre-installed).....$79

2U Web Server

*Supermicro P6DM3,Intel 840 chipset
*Dual CPU,128MB/ECC,133Mhz
*Adaptec 2x7892 U3/160Mb
***9GB U3/LVD,160MB/Sec SCSI**
*48x Speed IDE CD-ROM
*4MPCI VGA,1.44 floppy drive
*Intel Express Pro PCI 10/100BT
***2U/19" Rackmount,w/250W ATX**
*MS-Mouse & 104 keys Keyboard

Dual Pentium-3-500.....$1769
Dual Pentium-3-550.....$1839
Dual Pentium-3-600E.....$1949
Dual Pentium-3-650E.....$2109
Dual Pentium-3-700.....$2339
Dual Pentium-3-800.....$2989
MS-Windows 2000.....$Call

1U Web Server

***Supermicro 370SEA w/CPU & Fan**
*Intel 810 chipset,66/100/133FSB
*128MB Sdram (up to 512MB)
*20GB,9ms,7200rpm ATA/66 drive
*AGP w/4MB+Flat Panel support
*Integrated Audio/Modem function
*Intel PCI 10/100BT w/Riser card
*48x Speed IDE CD-Rom
*31/2" 1.44MB floppy drive
*PS/2 104 keyboard & MS-Mouse
***Black 1U Rackmount w/100WP.S**

Intel Celeron PPGA-533.....$1039
Intel P3-550E-FCPGA.....$1139
Intel P3-600E-FCPGA.....$1189
Intel P3-667-FCPGA.....$1289
Intel P3-733-FCPGA.....$1479
Intel P3-750-FCPGA.....$1519

CAD Station

*P6SBU w/CPU,128MB Memory
*Adaptec 7890 Ultra 2 W/S3(80MB)
*9GB Ultra-II Wide S3 Hard Drive
*100MB IDE Zip,1.44MB Floppy
*40x Speed SCSI CD-ROM
*ATI Rage Fury/PC2TV,32MB
*Sound Blaster Live Value PCI
*Diamond 56K KV.90 PCI w/Voice
*Altec Lansing 3PCS Power Cube
*Mid-Tower case w/250 ATX P.S
*MS-Mouse & 104 Keys Keyboard
***Nokia 446,19" 1600x1200, .21dpi**
*Windows 98" Installed (licensed)

Pentium-3-500.....$2149
Pentium-3-550.....$2189
Pentium-3-650E.....$2229
Pentium-3-700.....$2429
Pentium-3-800.....$2789

Super Station

*P6SCD w/CPU,64MB Sdram
*Intel 820 Chip,100/133Mhz FSB
*13GB ATA/66MB,7200rpm
*Sound Blaster Live PCI
*Altec Lansing Stereo Speaker
*Diamond 56K PCI/V.90w/Voice
*52x CD-ROM,1.44MB floppy
*Mid-Tower, w/250W (ATX)
*MS-Mouse & 104 keys Keyboard
*ATI Xpert@Play(PC2TV),8MB
*Windows **98**" Pre-installed

Pentium-II-450Mhz.....$869
P3-500/550.....$899/$929
P3-533B/600B.....$929/$989
P3-600E/650E.....$979/$1059
P3-750/800.....$1189/$1499

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*Hollywood Home Theater Speaker
*56K/V.90 Data/Fax/Voice modem
*10/100 Mbps Lan,1.44MB Floppy
***Intel Ir Video 5x Win DVD**
*Wireless Mouse & Keyboard
*Book Size 272mmx295mmx82mm
*MS-Windows **98**" Installed (licensed)

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Intel Celeron PPGA-466.....$639
Intel Celeron PPGA-500.....$699

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ATI Fury Pro,AGP,32/64.....$149/$269
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Diamond S540 16/32MB,AGP.....$65/$85
Diamond Viper-II Z200,AGP,32M.....$145
Matrox G400 A16/32MB,AGP...$119/$149
3D Blaster Pro,AGP,32MB.....$295
3DFX-3500,TV Tuner,16MB AGP.....$185
Oxygen-VX1,32MB,AGP.....$209
Oxygen-GVX1,32MB,AGP.....$698
Evans Tornato 3000,62MB,AGP...$1379
Evans Accelgalaxy,52MB,AGP.....$1219
Evans Lightning,32MB,AGP.....$479
Elsa Erazen 2,AGP 32MB DDR.....$275
Elsa Gloria-II,AGP,64MB.....$675

Tape Backup

HP-C1554,4mm Dat,12/24GB SCSI..$849
HP-C1599,4mm Dat,4/8GB SCSI.....$559

Seagate Tape Drive:

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STD28000N,4/8GB,DDS-2,SCSI.....$549
STD224000N12/24GB,DDS-2,SCSI..$659

SONY Tape Drive:

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SDT7000K4~8GB,DDS-2,SCSI.....$579
SDT9000K 12/24GB,DDS-2,SCSI.....$695

Quantum Tape Drive:

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DLT7000,20/40GB,DLT SCSI.....$3245
DLT8000,35/70GB,DLT SCSI.....$3495
Iomega Zip 100MB IDE drive.....$79
Iomega Zip 250MB IDE drive.....$135

CD-Rom Drives

Toshiba 6501B,99ms 40x SCSI.....$85
Sony CDU411,48x IDE CD-Rom.....$57
Toshiba DVD 8x/Mpeg2/Kit.....$175
Yamaha,8x4x24 SCSI CD-RW.....$295
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Sony-CRX140S,8x4x32 SCSI RW.....$259
Teac-54E,4x4x32 IDE Rewriter.....$215
Ricoh-7060S,6x4x24 SCSI R/W.....$198

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3Com 3C16722 8x port 100 BT Hub...$155
3Com 3C16980,24P 100BT Switch...$1495
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DSH-32, 32 Port ,10/100 BT Hub.....$455

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G81021"1600x1280, .25dpi,89K.....$785
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P815,21"1800x1440, .25dpi,USB.....$875

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XJ717"1280x1024, .26dpi,70K.....$319
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445Xpro,21"1600x1200, .21,121K..$1365

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CM751U,19",1600x1200, .22,93k...$539
CM769,19",1900x1280, .22,85K.....$625
CM811U,21",1600x1200, .22,96K..$879
CM813U,21",1856x1392, .22,115K.$1265

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DP-900U,19",1600x1200,Flat,95K...$675
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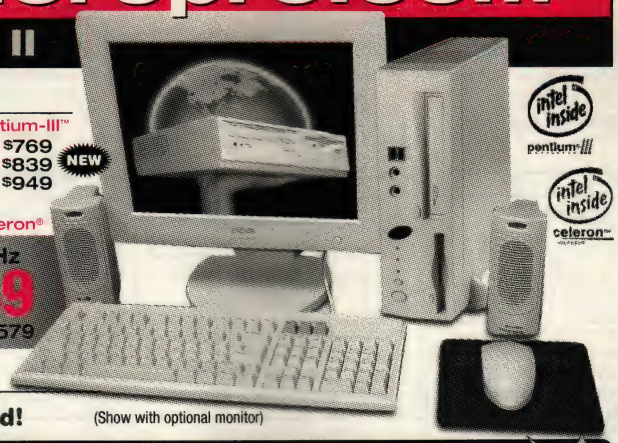

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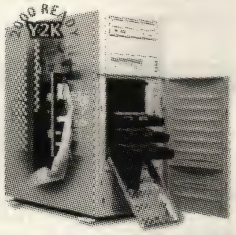

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AMD K6-2 3DNOW Technology
K6-2 500 145
K6-2 550 189

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K6-2 500 149
K6-2 550 199

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AMD K6-2 3DNOW Technology
K6-2 500/550 ..... 159/199

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K6-2 500/550 ..... 169/209

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K6-2 550 209

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- (1) AGP, (5) PCI, (1) ISA slots
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AMD Athlon K7™ w/3DNOW Technology
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K7M
ASUS $159
- Support Single AMD Athlon K7 500-850+
- (1) AGP, (5) PCI, (1) ISA slots
- ATX Size: 9.6" x 12.0"

1GHZ $1365

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- (1) AGP, (6) PCI, (1) ISA slots
- ATX Size: 8.2" x 12.0"

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NEW! 133MHz FSB

1854-S TRINITY
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- ATX Form Factor: 12.0" x 8.3"

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750/800/850MHz 535/625/865

P6BAT-A+
ECS $79
- VIA Apollo Pro 133A Chipset
- SUPPORT Single Slot 1/Socket 370 CPU
- 133MHz FSB (Front System Bus)
- ATX Form Factor: 12.2" x 8.8"

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600/667MHz 315/345
733/800/866MHz 400/610/865

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750/800/850MHz 505/600/840

P6VAP-A+
ECS $109
- VIA Apollo Pro 133A Chipset
- SUPPORT Single Slot 1/Socket 370 CPU
- 133MHz FSB (Front System Bus)
- ATX Form Factor: 12.2" x 8.8"

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600/667MHz 345/375
733/800/866MHz 435/640/895

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Intel®Pentium®III Processor
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750/800/850MHz 535/630/870

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- SUPPORT Single FCPGA CPU
- 133MHz FSB (Front System Bus)
- Two 168-pin DIMM Sockets
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600/667/733/800/866MHz ... 375/405/465/675/925

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500/533/566/600MHz 345/260/275/315

Intel®Pentium®III Processor
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750/800/850MHz 570/665/900

370SC3
SUPERMICRO $315
- Intel® i820 (Camino) Chipset
- SUPPORT Single FCPGA CPU
- 133MHz FSB (Front System Bus)
- Four 168-pin DIMM Sockets
- Adaptec Ultra 160 SCSI onboard
- ATX Form Factor: 12.0" x 9.6"

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intel $135
- Intel® i820 (Camino) Chipset
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- Two 184-pin RIMM Sockets
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P3ISCD
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- ATX Form Factor

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733MHz 665
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- Support Dual Intel PIII 500-850+ MHz
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- ATX size

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DVD DRIVE WON'T READ CDs

Dear Alfred:

My system's DVD-ROM drive won't recognize CDs that it used to be able to read without a problem. My PC's technical-support folks had me reinstall drivers and even reformat and reinstall everything on my hard drive; they said it must be a virus. Should I just exchange the drive for a CD-ROM instead?

Mary Kinman

If this drive used to be able to read CDs, but now cannot, it sounds like a hardware problem. One likely cause is a dirty drive head. Try using a standard CD cleaning kit and see if that helps.

If the CDs are not ones you have used before in this drive, the problem could be the discs. If they are recordable CDs (CD-Rs), some DVD-ROM drives will read some types of CD-R more reliably than others. This is especially true for older DVD-ROM drives.

It is unlikely that a virus could be involved, but screening your system with a good virus checker should eliminate that possibility. Even if a virus does exist, many can be removed without having to reformat and reinstall everything.

If these solutions don't address your problem, then your drive is probably bad. I'd still replace it with another DVD-ROM—this is the medium that will be used for software distribution in the near future, and you're going to want a DVD drive sooner or later.

DELIVER THE LETTER

Dear Alfred:

I just switched to a new ISP. Is there an easy way to route my mail from my old address to the new one?

Jeff Strand

When you change ISPs, your e-mail address changes, and you have to notify everyone that you've moved. Sometimes you can maintain both accounts for a while and make sure that you're no longer getting mail at the old address. Some ISPs offer e-mail forwarding and autoresponders; if your old service has these features, you can have mail from the old account forwarded to you, and an automatic reply sent to the sender with your new address.

Another possible solution is to use a service that will give you a permanent e-mail account that you can use with any ISP. Some services, such as Bigfoot ***(www.bigfoot.com)***, offer a free e-mail account that will automatically forward any mail for this address to your e-mail account with your current ISP. As long as your correspondents use your Bigfoot address, you'll never need to notify them about an e-mail address change again.

THE CASE OF THE LACKING LAPTOP

Dear Alfred:

I have a notebook that doesn't have a CD-ROM drive. Is there any way that I can install Windows 98 on it?

Darren Lee Thomas

The easiest solution is to buy or borrow an external CD-ROM drive that you can access from DOS. A parallel-port model might be best, since you won't have to cope with Card Services software like you would with a drive that uses a PC Card interface. After you add the required drivers and MSCDEX program to a boot floppy, you should be able to boot up and access the CD-ROM drive. Then you can install Windows. If you don't keep the CD drive with the system, and your hard drive has sufficient capacity, you might want to copy the CD's WIN98 folder to your hard drive, in case you need to access any of the original files in the future. ▼

tip of the month

PAPER BLANKET

No, folks, Norman Worley is not one of my pen names. He's just one of the more prolific and clever tipsters out there. He's got some cool insights into hot CPU chips.

Dear Alfred:

My system gave me a CPU overheating warning, and I found it was running at about 150°F to 160°F. I opened the case to investigate and discovered a warranty sticker and a serial-number sticker preventing the heat sink from making good contact.

I removed both stickers and the dried-up thermal compound (using some WD-40), put fresh compound on the CPU, and lightly sanded the inside of the heat sink with some 120-grit paper to remove any high spots. The result was better contact between the chip and the heat sink, and the running temperature dropped to 120°F to 125°F.

Norman Worley

Except when used to make coffee cups, paper makes a good insulator, so it makes sense to remove any stickers that might get between the CPU and its heat sink. And the use of a thin coat of thermal compound between the two can make the heat sink far more effective. Increased demand and pressure to keep costs down might result in lower quality control on these inexpensive components.

Send us your favorite tip, and you could receive a tipster's prize package, including a coveted "Computer Cures" T-shirt, plus some other exciting items you can't get anywhere else. Send your questions and tips to:

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0600BW

BUYING ADVISOR

by Asa Somers

The Lowdown On High Speed

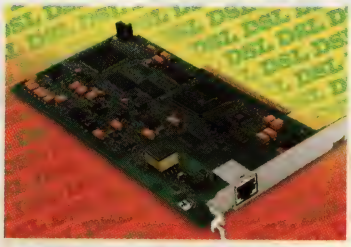
When choosing between cable and DSL broadband access, service availability can be the deciding factor.

SEVERAL READERS HAVE inquired recently about cable and digital subscriber line (DSL) services, the two competing technologies in the rapidly evolving broadband Internet market. Because the services and prices vary from city to city, no one-stop shopping solution exists. So to give you an idea of the factors that pertain to most any market, we checked out high-speed Internet options on our home turf, New York City.

First, the hardware. Both DSL and cable providers are consistent in their minimum hardware recommendations. Most suggest that you have at least a Pentium-level processor or equivalent, 64MB of RAM, 25MB of hard drive space, and Windows 95 or later. (Macs are also supported.)

Cable, and often DSL, requires an Ethernet card for connections. You can purchase one separately or have your new computer configured with one; the card should cost you between $30 and $50.

Beyond that, we recommend getting the modem and the rest of the hardware you'll need (filters and splitter) from the service provider rather than in bundled retail solutions. These companies generally buy at wholesale and pass some of the savings on to you. Some providers also let you lease the modem rather than purchase it. We recommend leasing, at least for now, because the technology is changing so fast.



Some DSL modems, such as the 3Com HomeConnect, include built-in Ethernet.

Both technologies are "always on," meaning you can leave your computer connected 24/7. Pricing for each service is usually at a flat monthly rate. Beyond this, however, the similarities end.

The biggest difference between DSL and cable is that the former uses a standard copper phone line, and the latter shares the same coaxial cable feeding your television. While each DSL line is dedicated to an individual subscriber, cable is a shared system, sort of like a LAN for your neighborhood.

The services also differ in speed. Most consumer-level DSL systems deliver 384Kbps to 640Kbps downstream data rates, and slower upstream speeds. DSL comes in faster flavors, with higher upstream speeds and downstream data rates as fast as 7.1Mbps. Pricing, however, generally makes these options attractive only to small and medium-size businesses.

CHALLENGE

USER PROFILE

A midtown Manhattan home computer user seeking broadband Internet access

Cable, on the other hand, sends data downstream at a blazing 2Mbps. This wide bit stream can dwindle to a trickle, however, as more people use the system at the same time.

Another problem with both services is availability. Only the West Coast boasts real coverage; the rest of us are still contending with partial rollouts from neighborhood to neighborhood. Worse, DSL requires users to live within about three miles of the nearest telephone central station, which means that suburban and rural areas are still mostly without service. Cable modems, on the other hand, theoretically can be offered wherever cable television is available.

In our area of midtown Manhattan, **Bell Atlantic** ***(www.bellatlantic.net)***, the default local phone company, offers the best deal on DSL service because it controls the phone lines. Regional companies like **Prism Communication Services** ***(www.red-2000.com)***, **Tribeca Internet** ***(www.tribecaweb.com)***, and **Flash Communications** ***(www.flashcomm1.net)*** resell DSL service, but in general charge more or provide slower service at the same price. Moreover, all three required us to sign a one-year service commitment to get anywhere near competitive pricing, whereas Bell Atlantic offers monthly rates.

In New York, Bell Atlantic's most basic Personal Infospeed service, which delivers 640Kbps downstream and 90Kbps upstream data rates, costs $49.95 per month, including Internet service through Bell Atlantic.net. If we preferred to use another ISP, we could pay only $39.95 per month for the connection itself. The up-front charge for an internal 3Com HomeConnect DSL modem—which obviates the need for an Ethernet card—was $99. We could elect to install the hardware and software ourselves, or pay the company $120 to come do it for us. According to a Bell Atlantic rep, if we simply tried to install the modem and the installation failed, the company would install it for free.

Cable is generally cheaper than DSL, but the only high-speed cable service available for our building was Time Warner's Road Runner service ***(www.rr.com)***, which costs $39.95 per month with an additional $69 up-front equipment/installation fee ($99 if we didn't already have an Ethernet card). Signing up required no contract. Local competitor RCN ***(www.rcn.com)*** offers similar monthly pricing and waived all additional fees, but it was not available at our location.

All things considered, we like the DSL option because of its guaranteed constant connection rate and dedicated line. But cable is a better deal for consumers who don't mind fluctuation in throughput due to usage traffic.

SOLUTION

THE ADVISOR'S CHOICE

It's a toss-up. Cable may be faster and cheaper for some, while DSL offers a dedicated line and guaranteed throughput. The clincher may be which service is available first.

For many people, however, the decision may be as simple as which service is available first where they live.

If you want help making a smart buying decision, e-mail the Buying Advisor at ***buying_advisor@zd.com.***

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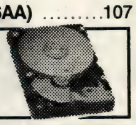

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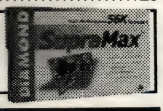

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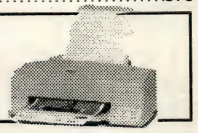

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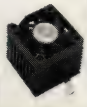

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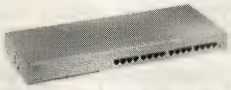

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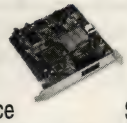

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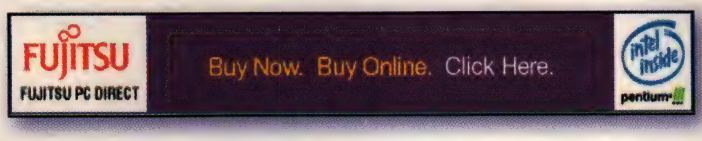

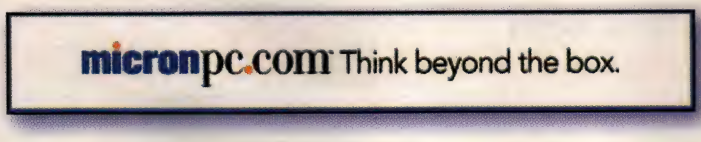

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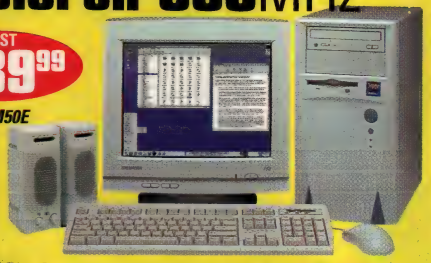

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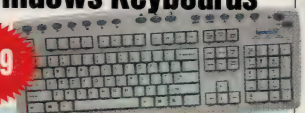

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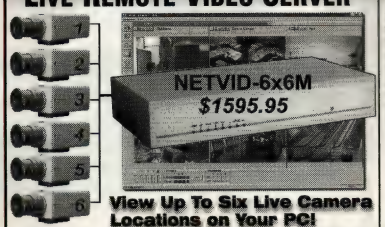

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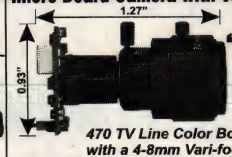

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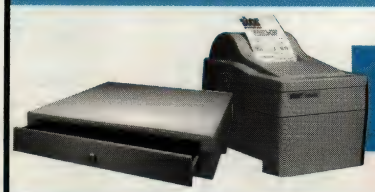

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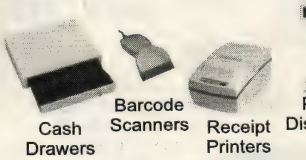

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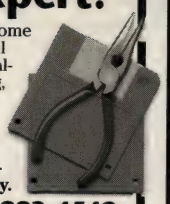

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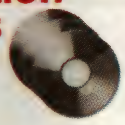

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8100 DN	3239
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4500 DN	3688
8550	CALL
8550 N	CALL
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6 W	177
8W*	188
10 E	277
10 EX	369
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24 DX	1169
8 Color	2188

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5700 I ... 359

NEC

870	269
1260	444
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A 90 M	388
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R 60	588
R 80 XI	699
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G95	977
3150 XI	577
3100 XI	588

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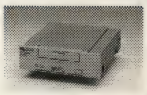

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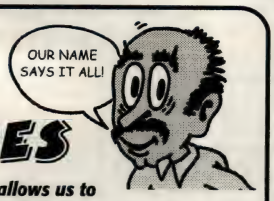

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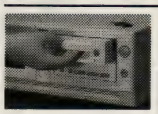

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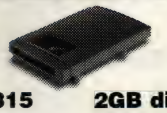

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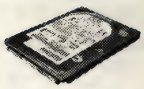
Ultra-2 SCSI
(JAZ2X) External Drive

2GB disks $85 each
(JAZC2GIGPC)

LAPTOP DRIVE

IBM



6GB $179
9.5mm height
(DA206000) Int.

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ULTRA ATA/66 IDE Ultra ATA-66 PCI controller $35 w/ drive (ULTRA66)				
4.3GB	256k	5400	ST34313A	$82
8.4GB	256k	5400	ST38410A	$99
10.2GB	2MB	7200	ST310210A	$Call
10.2GB	512k	5400	ST310212A	$115
13.0GB	512k	5400	ST313021A	$125
15.3GB	512k	5400	ST315323A	$132
17.2GB	512k	5400	ST317221A	$135
20.4GB	2MB	7200	ST320420A	$Call
20.4GB	512k	5400	ST320423A	$143
30.6GB	2MB	7200	ST330630A	$Call
ULTRA SCSI				
9.2GB	2MB	7200	ST39216N	$239
18.4GB	2MB	7200	ST318416N	$361
ULTRA Wide SCSI				
9.2GB	2MB	7200	ST39216W	$239
18.4GB	2MB	7200	ST318416W	$361
Ultra 160 SCSI (up to 160MB/sec)				
9.2GB	2MB	7200	ST39236LW	$239
9.2GB	4MB	7200	ST39236LWV	$252
9.2GB	4MB	10,000	ST39204LW	$352
18.2GB	4MB	10,000	ST318404LW	$539
18.4GB	2MB	7200	ST318436LW	$361
18.4GB	4MB	7200	ST318436LWV	$379
36.7GB	4MB	10,000	ST336704LW	**$939**
36.7GB	16MB	10,000	ST336704LWV	$999
73.4GB	4MB	10,000	ST173404LW	$1619
73.4GB	16MB	10,000	ST173404LWV	$1689
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9.2GB	2MB	7200	ST39236LC	$239
9.2GB	4MB	7200	ST39236LCV	$252
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18.2GB	4MB	10,000	ST318404LC	$539
18.4GB	2MB	7200	ST318436LC	$361
18.4GB	4MB	7200	ST318436LCV	$379
36.7GB	4MB	10,000	ST336704LC	**$939**
36.7GB	16MB	10,000	ST336704LCV	$999
73.4GB	4MB	10,000	ST173404LC	$1619
73.4GB	16MB	10,000	ST173404LCV	$1689
FC-AL Fibre Channel 160 (Arbitrated Loop)				
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73.4GB	4MB	10,000	ST173404FC	$1619

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6.0GB	9.5mm	4200	MK6014MAP	$159
12.1GB	9.5mm	4200	MK1214GAP	$245
18.1GB	12.5mm	4200	MK1814GAV	$369

IBM

Capacity	Height	RPM	Model	Price
6.0GB	9.5mm	4200	DA206000	$179
12.0GB	9.5mm	4200	DA212000	$250
18.1GB	12.5mm	4200	DA218000	$419
25.3GB	17mm	5411	DA225000	$529

HITACHI

Capacity	Height	RPM	Model	Price
6.0GB	9.5mm	4200	DK32AA-60	$149
12.0GB	12.7mm	4200	DK23AA-12	$239

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MicroSolutions

Microsolutions offers a complete line of plug and play external drives. These drives easily interface with your computer's parallel printer port. They also have a pass through connector so you can use your printer at the same time.

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32X CD-ROM w/sound	#BACKPAC32XS	$195
6GB Hard Drive	#BACKPACK6G	$259
8GB Hard Drive	#BACKPACK8G	$295
4x4x20 CD Rewritable	#BACKPAC4X20	$289

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Diskmanager partitioning software (DISKMANAGER)	**$12**
2.5" IDE to 3.5" adapter kit (IDEKIT-2.5)	$15
2.5" SCSI to 3.5" adapter kit (SCSIKIT-2.5)	$15
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PCMCIA external drive case for 2.5"IDE (PCMCIA2.5)	$119

PC CARD (PCMCIA) Accessories

Internal PC Card reader for desktop PC (PCD220)	$79
External PC Card reader for desktop PC (PED220)	$89

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Hard drive caddies for name brand laptops! Mount one of our 2.5" hard drives into the appropriate caddy and save hundreds of dollars!

IBM 310	**#TP310**
IBM 355, 360, 750, 755	**#THKPAD**
IBM 365 (up to 12.7mm high)	**#TP365**
IBM 380X0, 385X) (up to 17mm high)	**#TP600**
IBM 600 (up to 12mm high)	**#TP600**
IBM 701 (up to 12.7mm high)	**#TP701**
IBM 760 (up to 12.7mm high)	**#TP760**
IBM 770 (up to 17mm high)	**#TP770**
Compaq Contura (up to 12mm high)	**#CQCON**
Compaq Elite (up to 19mm high)	**#CQEL5000**
Compaq Armada (up to 12mm high)	**#CQA41**
Compaq Armada 7300	**#CQA73**
Compaq 1010 (up to 12.7mm high)	**#CQP1010**
NEC Versa (up to 19mm high)	**#NV**
NEC 2000, 4000, 6000 (up to 12mm high)	**#N4000**
NEC 2400, 2500 (up to 12mm high)	**#N24**
Toshiba TEC 500, 510 (up to 12mm high)	**#T500**
Toshiba 4700, 4800, TEC 700 (19mm high)	**#T700**
Toshiba 100, 110, 200, 210, 400, 430 (12)	**#T400**
Toshiba 660 (up to 12mm high)	**#T660**
Toshiba 1950 (up to 12.7mm high)	**#T1950**
Toshiba POR 610 (up to 12mm high)	**#T610**
Toshiba Portege 650 (up to 12.7mm high)	**#T650**
Toshiba Tecra 520, 530 Satellite Pro 440, 460, 480 (up to 12.7mm high)	**#T440EB**
Toshiba Tecra 520, 530 (up to 19mm high)	**#T520**
AST 800, 810, 900, 910 (up to 19mm high)	**#A900**
AST J series (up to 12mm high)	**#AJ**
HP 4000, 5000 (up to 19mm high)	**#H5000**
HP 5500 (up to 12mm high)	**#H5500**
Dell XPi (up to 17mm high)	**#DXP**
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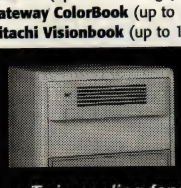

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Twin cooling fans are controlled by heat sensitive circuitry. (VHDFAN) $25

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Blistering fast Atlas V & 10K Ultra/160m drives.

- 160MB/sec data transfer rates, seek times as low as 6.3ms
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- Backward compatibility with Ultra-2 & Ultra SCSI cards

	7,200rpm	10,000rpm
9.1 GB	$250 XC309100LW	$333 TN309100LW
18.2GB	$395 XC318200LW	$542 TN318200LW
36.4GB	$785 XC336400LW	$935 TN336400LW

Quantum Top Sellers!

Quantum FIREBALL

Quantum's Fireball drives are the perfect choice for Ultra ATA-66 hard drives. They offer great performance with a huge 2MB buffer, and fast spindle speeds. These drives also feature the new Shock Protection System (SPS) that protects the drive heads in case of shock.

7200rpm Fireball Plus

10.2GB	QMP10200LM	$129
15.0GB	QMP15000LM	$148
20.0GB	QMP20500LM	$165
30.0GB	QMP30000LM	$250

Ultra-66 controller and cable only $45 with the purchase of one of these drives.

Quantum Recommended Ext Drive

Quantum Ultra 160/m SCSI hard drive externals!

Quantum Altas hard drives in our high quality enclosures make the ideal backup to store away your data. And no tape can match a hard drive's speed. Just back up to these drives and store them away.

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18.2GB	TN318200LWX	(10,000rpm)	$672
36.4GB	TN336400LWX	(10,000rpm)	$1065

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New LCT Drives

Fireball Low Cost Technology Drives
Reliability and economy in one high quality drive

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Seagate

New Capacities - New Buffers! Ultra 160 SCSI

9.2GB	2MB	7200	ST39236LW	$239
9.2GB	4MB	7200	ST39236LWV	$252
9.2GB	4MB	10,000	ST39204LW	$352
18.2GB	4MB	10,000	ST318404LW	$539
18.4GB	2MB	7200	ST318436LW	$361
18.4GB	4MB	7200	ST318436LWV	$379
36.7GB	4MB	10,000	ST336704LW	**$939**
36.7GB	16MB	10,000	ST336704LWV	$999
73.4GB	4MB	10,000	ST173404LW	$1619
73.4GB	16MB	10,000	ST173404LWV	$1689

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Removable cartridge drive.
Prices include 1 free disk.

Internal IDE (ORBIDE)	$175
Internal SCSI (ORBSCSI)	$209
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NEW ORB USB (ORBUSB)	$265
Extra Disks (ORBDISK)	$37

OPTICAL DRIVES

MAXOPTIX

5.2 Gig • (2.6GB,1.3GB,1GB,650MB compatible) SCSI-2, 4MB buffer

Internal (T6-5200) /External (T6-5200X)	$1399/$1539
Maxoptix 5.2 Media 1-4/5-9/10+ (MAX5.2)	$83/$80/$77

SONY

5.2 Gig • (2.6GB,1.3GB,650MB r/w compatible) SCSI-2, 4MB buffer

Internal (SMOF551) /External (SMOF551X)	$1389/$1529
Sony 5.2 Media 1-4/5-9/10+ (SMAX5.2)	$83/$80/$77

OPTICAL MEDIA -
The most stable disk around.

Size	Cat#	Description	2-4	5-9	10+
128MB	TJ128	3.5", 512K	$13	$9	$7
230MB	TJ230	3.5", 512K	$14	$10	$8
230MB	TJ230MAC	Mac formatted	$14	$10	$8
640MB	TJ640	3.5", 2048K	$21	$17	$15
650MB	TJ650	5.25", 1024K	$25	$23	$21
1.2Gig	TJ1.2	5.25", 512K	$25	$23	$21
1.3Gig	TJ1.3	5.25", 1024K	$26	$24	$22
2.6 Gig	Th2.6	5.25", 1024K	$33	$29	$27
5.2Gig	TJ5.2	5.25", 2048K	$70	$68	$64

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4x4x32 CD Rewritable for PC or Mac

Master CDs with this complete kit. Includes mastering software and drive in high quality external USB case.

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100MB Zip Drive

Iomega USB 100MB Zip drive. Easy to install, simply connect to the USB port on your system and install the included software.

#ZIP100USB **$119**

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Iomega USB 250MB Zip drive. Easy to install, simply connect to the USB port on your system and install the included software.

#ZIP250USB **$169**

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Revolutionary removable media storage by Castlewood Systems holds 2.2GB of uncompressed storage capacity. Includes a 2.2GB cartridge.

#ORBUSB **$269**

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USB to SCSI adapter by Adaptec. Allows you to attach any SCSI device to the USB port. Supports up to 7 SCSI devices.

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Imation LS-120 USB drive for iMac & Blue G3 systems. Reads Mac & PC formats. Uses 1.4MB and 120MB disks.

#USBLS120 **$149**

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#USB8GB **$169**

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13GB USB external hard drive with built-in fan and USB cable. Cool looking translucent white plastic casing.

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#USB30GB **$279**

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8x	Budget 20 pack (CDR74B-20)	$22
8x	Budget 50 pack (CDR74B-50)	$50
8x	Budget 100 pack (CDR74B-100)	$89
8x	5 pack (CDR74-5)	$8
8x	20 pack (CDR74-20)	$27
8x	50 pack (CDR74-50)	$66
8x	100 pack (CDR74-100)	$125
8x	Platinum 5 pack (CDR74PA-5)	$10
8x	Platinum 20 pack (CDR74PA-20)	$31
8x	Platinum 50 pack (CDR74PA-50)	$72
8x	Platinum 100 pack (CDR74PA-100)	$134

Printable CDR-74 in jewel case

4x	Budget 5 pack (CDR74PB-5)	$8
4x	Budget 20 pack (CDR74PB-20)	$22
4x	Budget 50 pack (CDR74PB-50)	$54
4x	Budget 100 pack (CDR74PB-100)	$95
8x	5 pack (CDR74P-5)	$11
8x	20 pack (CDR74P-20)	$47
8x	50 pack (CDR74P-50)	$86
8x	100 pack (CDR74P-100)	$169

CDR-80 80 minute media in jewel case

8x	Budget 5 pack (CDR80-5)	$9
8x	Budget 10 pack (CDR80-10)	$25
8x	Budget 50 pack (CDR80-50)	$57
8x	Budget 100 pack (CDR80-100)	$104

Bulk! Spindle 74 minute media. Includes 50 CD-Rs (8x), No jewel cases included (CDR74S8-50) $59

Bulk! Spindle 74 minute media. Includes 100 CD-Rs (8x), No jewel cases included (CDR74S8-100) $115

Bulk! Spindle 80 minute media. Includes 100 CD-Rs (8x), No jewel cases included (CDR80S8-100) $99

Bulk! Spindle 80 minute media. Includes 500 CD-Rs (8x), No jewel cases included (CDR80S8-500) $450

CD REWRITABLE MEDIA

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4x	Budget 5 pack (CDR74WB-5)	$8
4x	Budget 20 pack (CDR74WB-20)	$22
4x	Budget 50 pack (CDR74WB-50)	$56
4x	Budget 100 pack (CDR74WB-100)	$104
4x	5 pack (CDR74W-5)	$24
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Yamaha 8x4x24 Packet write, 4MB buffer
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Ricoh 8x4x32 Packet write, 4MB buffer
IDE Int drive COMPLETE KIT w/ software & media! (RW7080AK) $225

Plextor 8x4x32 Packet write, 4MB buffer, tray load
IDE internal with software, 1 R & RW disk (PXW8432R) $259

Acer 8x4x32 Packet write, HUGE 8MB buffer, tray load
IDE internal with software, 1 RW disk (CRW8432A) $225

Creative 8x4x32 Packet write, 2MB buffer, tray load
IDE internal with software, 1 R & RW disk (SBCDRW8432) $235

Sony 10x4x32 Packet write, tray load
IDE internal with software, 1 R & RW disk (CRX145E) $279

Hewlett Packard 10x4x32 ReWritable
Packet write, 4MB buffer, tray load
IDE Internal with software (C4492A) $289

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8x4x24

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Yamaha 8x4x24 Packet write, 4MB buffer
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Ext drive (YCRW8424SX) $299
Internal drive w/ software & 1 disk (YCRW8424WOW) $259

SONY 8x4x32 Packet write, tray load
Int SCSI drive (CRX140S) $279
Ext SCSI drive (CRX140SX) $329

Hewlett Packard 8x4x32 Packet write, 4MB buffer, tray load
Int SCSI drive (C4457A) $279
Ext SCSI drive (C4457AX) $339

SONY 10x4x32 Packet write, 4MB buffer, tray load
Int SCSI drive (CRX145S) $339
EXT SCSI drive (CRX145SX) $399

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Int SCSI drive (CD1CD00028) $335
Ext SCSI drive (CD1CD00028X) $395

Plextor 12x4x32 Packet write, 4MB buffer, tray load
Int drive (PXW12432B) / Ext drive (PXW12432BX) $309/$369
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THE BEST BUYS IN CD REWRITABLES

You just won't find better deals on CDR-W drives than these.

	Drive Kit	Ext Drive	ISA Int Kit	ISA Ext Kit	PCI Int Kit	PCI Ext Kit
8x4x24 IDE CD ReWritable	**$239**	**$359**	**$269**	**$359**	**$389**	**n/a**
8x Record, 4x ReWrite, 24x Read, Yamaha mechanism Packet write compatible, 4MB cache, tray load	#YAM8X4X24IN	#YAM8X4X24HP	#YAM8X4X24I	#YAM8X4X24HP	#YAM8X4X24IP	
8x4x32 IDE CD ReWritable	**$239**	**$359**	**$269**	**$359**	**$289**	**n/a**
8x Record, 4x ReWrite, 32x Read, Ricoh mechanism Packet write compatible, 4MB cache, tray load	#RIC8X4X32IN	#RIC8X4X32HP	#RIC8X4X32I	#RIC8X4X32HP	#RIC8X4X32IP	
10x4x32 IDE CD ReWritable	**$279**	**$399**	**$309**	**$399**	**$429**	**n/a**
10x Record, 4x ReWrite, 32x Read, HP mechanism Packet write compatible, 2MB cache, tray load	#HP10X4X32IN	#HP10X4X32HP	#HP10X4X32I	#HP10X4X32HP	#HP10X4X32IP	
8x2x20 SCSI CD ReWritable	**$339**	**$399**	**$409**	**$439**	**$419**	**$459**
8x Record, 2x ReWrite, 20x Read, Plextor mechanism Packet write compatible, 4MB cache, tray load	#PLE8X2X20SN	#PLE8X2X20EX	#PLE8X2X20S	#PLE8X2X20SX	#PLE8X2X20P	#PLE8X2X20PX
8x4x24 SCSI CD ReWritable	**$259**	**$319**	**$329**	**$359**	**$339**	**$379**
8x Record, 4x ReWrite, 24x Read, Yamaha mechanism Packet write compatible, 4MB cache, tray load	#YAM8X4X24SN	#YAM8X4X24EX	#YAM8X4X24S	#YAM8X4X24SX	#YAM8X4X24P	#YAM8X4X24PX
8x4x32 SCSI CD ReWritable	**$289**	**$349**	**$359**	**$389**	**$369**	**$409**
8x Record, 4x ReWrite, 32x Read, HP mechanism Packet write compatible, 4MB cache, tray load	#HP8X4X32SN	#HP8X4X32SEX	#HP8X4X32S	#HP8X4X32SSX	#HP8X4X32SP	#HP8X4X32SPX
10x4x32 SCSI CD ReWritable	**$339**	**$399**	**$409**	**$439**	**$419**	**$459**
10x Record, 4x ReWrite, 32x Read, Sony mechanism Packet write compatible, 4MB cache, tray load	#CR10X4X32SN	#CR10X4X32X	#CR10X4X32S	#CR10X4X32SX	#CR10X4X32P	#CR10X4X32PX
12x4x32 SCSI CD ReWritable	**$349**	**$409**	**$419**	**$449**	**$429**	**$469**
12x Record, 4x ReWrite, 32x Read, Cendyne mechanism Packet write compatible, 4MB cache, tray load	#C12X4X32SN	#C12X4X32EX	#C12X4X32S	#C12X4X32SX	#C12X4X32P	#C12X4X32PX

Drive Kit - Includes drive, Mastering software for Win 95, 98 & NT, & 5 free 4x CDR-W disks (requires controller).
Ext Drive - Includes drive in our high quality external case, Mastering software for Win 95, 98 & NT & 5 free 4x CDR-W disks. (requires cable & terminator). (IDE External Drive only includes Hot Port case & ISA controller card).
ISA/PCI Int Kit - Includes drive, ISA or PCI controller, Mastering software for Win 95, 98 & NT & 5 free 4x CDR-W disks.
ISA/PCI Ext Kit - Includes drive in our high quality case, 3 foot SCSI cable, terminator, ISA or PCI controller, Mastering software for Win 95, 98 & NT & 5 free 4x CDR-W disks.
Units with Plextor or HP mechanism - Includes an additional 1 CDR and 1 CDRW disk.

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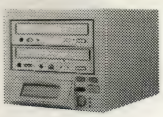

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- Tray Load

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#RW7080A

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SCSI CD ReWritable

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- ***24x playback speed***
- ***4MB buffer, Tray loading***
- ***Packet write compatible***

SCSI Drive (YCRW8424S)	$249
SCSI Drive, Mastering software, 1 4x R/W disk (YCRW8424WOW)	$259
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Print Your Own CDs!
Your CD's will look professional quality with this color CD printer. Prints on printable CD's. Compatible with PC or Mac. (CDPRINTER3)

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Dirt Cheap Drive Kit
- 16X kit complete with MPEG-2 decoder
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Complete Kit (DVD16KIT) $245

Creative DVD Kit
- Encore DVD 8X kit includes: 125ms 8X DVD drive
- Reads CDs at 40X, 90ms • MPEG-2 decoder
- DVD Titles (CLDVDBKIT) $229

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- 40X CD ROM, 80ms
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Toshiba *DVD utility software PC or Mac only $59*
- DVD-RAM 1X, 120ms • DVD-ROM 2x, 210 ms
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- Reads DVD-ROM, DVD-R, DVD-Video, Video CD, CD-ROM, CED-Audio, CD-R, and CD-RW disks.

Bare SCSI drive (SDW1111) $409

Panasonic Kit with Software and 2.6GB media
- DVD-RAM 1x, 120ms • DVD-ROM 2x, 85ms
- CD-ROM 20x, 85ms • 2MB buffer
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SCSI drive kit (LFD103U) $589

DVD RAM MEDIA

5.2 media (DVDRAMDISK) 1-4/5-9/10+ $37/$35/$33

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TOSHIBA Call about new 16X Toshiba!
- 8X DVD reader, 105ms • 40X CD ROM, 85ms

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PIONEER
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Bare IDE Drive tray load *(Also avail as slot load)* (DVD115) $169
- 10X DVD reader, 110ms • 40X CD ROM, 80ms

Bare IDE Drive tray load *(Also avail as slot load)* (DVD114) $149
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View DVD movie titles on TV without the use of wires. 2.4GHz signal penetrates walls, floors, and ceilings. Operates up to 300 feet away. Sends and receives crisp color and stereo audio. Also works with many other video/audio sources.

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SCSI CD ROM

Speed	Brand	Model	ms	Buffer	Int	Ext
32X	TEAC	CD532S	85	128K	$82	$172
32X	PLEXTOR	PX32TS (TRAY)	85	512K	$88	$178
32X	PLEXTOR	PX32CS (CADDY)	85	512K	$140	$230
40X	NEC	CDR3010	85	256K	$72	$162
40X	TOSHIBA	XM6401B	85	256K	$82	$172
40X	PLEXTOR	PX40TS (TRAY)	85	512K	$98	**$188**
52X	KENWOOD	UCR415	90	2MB	***$149***	***$239***
72X	KENWOOD	***Call for details on this hot new drive!***				
WIDE SCSI CD ROM						
40X	Plextor	PX40TSUW	85	512K	$99	$189

Pioneer 24x 6 Disk external CD changer (DRM6324X) $395

ACCESSORIES

Universal sound cable (AUDIOMIX) $5

CD driver software for Macintosh (RAPIDPD) $8

CD Caddies (CDCADDY) *5-19* $5 *20+* $4

IDE CD ROM

Speed	Brand	Model	ms	Buffer	Drive
40X	Teac	CD540E	85	128K	$49
40X	NEC	CDR3000	75	128K	$53
48X	Toshiba	XM6702B	85	256K	$57
48X	Mitsumi	CRMCFX48X	65	256K	$53
50X	Acer	CD650P	85	128k	$47
52X	Creative	SBCD52	100	256k	$49
52X	Kenwood	UCR412	90	2MB	$89
62X	Kenwood	UCR420	90	2MB	$109
72X	Kenwood	UCR421	100	2MB	$125

Call for IDE CD ROM towers - up to 8 CD ROMs in one tower!
Also available in rack mount - perfect for libraries.

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Buy a CD drive & sound card & get a FREE audio cable.

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Sound Blaster 512 (SBPCI512) $69

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IDE CD ROM case for PCMCIA port (PCMCIACD) $115

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• Connect up to 8 IDE CD ROMS (in increments of 2) directly to your Ethernet network without a computer. Auto switches between Ethernet and Fast Ethernet connection. Features 8MB RAM buffer, user upgradable to 72MB through SIMM sockets. FISC CD offers the most complete protocol support in the industry: Windows NT, Netware, Unix, Web server, and Macintosh. This controller is internet ready with built-in WWW server function. Mounts in a 5.25"HH drive bay. (FISC-CD) **$665**

One of the Best Buys in the Industry.

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Pre-assembled 8 drive tower. Uses FISC-CD controller listed above.

40X Drive tower (MIT40X8N) $1189

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- Fast 24x, 190ms speed
- Audio jack for earphone
- Wall transformer or battery pack

(PCMCIA24X) **$139**

IDE CDR & DVD-ROM in ONE!

Toshiba
• 4X • 4X Rewrite CD-RW • 4X DVD Read • 24X CD Read
Complete Drive Kit (SDR1002) **$339**

Ricoh
• 6X • 4X Rewrite CD-RW • 4X DVD Read • 24X CD Read
Complete Drive Kit (MP9060A) **$349**

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Attaches to your PC or Mac SCSI Port. 50 Disc auto loader, lets you load 50 discs & walk away. 4X CD record speed CDs are verified on separate 8X drive. Works with most operating systems.

1 CD-R drive (CEDAR10802) $5559

1 - above with printer (CEDAR10802P) $6669

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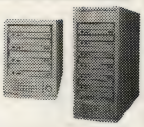

SCSI Towers			***4 Drives***	***7 Drives***
Plextor	32X	85ms	$429 #PLEX32X4B	$769 #PLEX32X7B
Toshiba	40X	79ms	$419 #TOS6401X4B	$729 #TOS6401X7B
Plextor	40X	85ms	$479 #PLEX40X4B	$839 #PLEX40X7B
Plextor	40X	85ms	$519 #PLEX40WX4B	$899 #PLEX40WX7B
Plextor 40X Now available in Ultra Wide SCSI!				
NEC	40X	85ms	$369 #NEC3010X4B	$659 #NEC3010X7B
Kenwood	52X	85ms	$729 #KEN415X4B	$1279 #KEN415X7B

Ethernet CD ROM Towers

• Can be used simultaneously from Win 95, NT, OS/2, and UNIX platforms using Novell Netware, Microsoft Networks, and NFS

	7 Drive 10baseT	***7 Drive 10/100***	***13 Drive 10baseT***	***13 Drive 10/100***
Plextor 32X	$1239 #PLEX32X7N	$1359 #PLEX32X7NT	$2139 #PLEX32X13T	$2439 #PLEX32X13E
Toshiba 40X	$1195 #TOS6401X7N	$1309 #TOS6401X7NT	$2059 #TOS6401X13T	$2359 #TOS6401X13E
Plextor 40X	$1305 #PLEX40X7N	$1419 #PLEX40X7NT	$2259 #PLEX40X13T	$2565 #PLEX40X13E
NEC 40X	$1125 #NEC3010X7N	$1239 #NEC3010X7NT	$1925 NEC3010X13T	$2225 #NEC3010X13E
Kenwood 52X	$1739 #KEN415X7N	$1845 #KEN415X7NT	$3049 #KEN415X13T	$3355 #KEN415X13E

Axis StorePoint CD (Ethernet SCSI CD Controller)

• Allows you to connect your SCSI CD ROM drives directly to your Ethernet or Token Ring network without a computer. Stand alone has its own external enclosure. Tower module mounts in a tower case & occupies 1 5.25" HH drive bay.

Enclosure	Network	Max # Drives	Item #	Price
Stand-alone	Ethernet	7	AXISCD-E	$465
Stand-alone	TokenRing	7	AXISCD-TR	$545
Tower Module	Ethernet	7	AXISCD/T-E	$455
Tower Module	Token Ring	7	AXISCD/T-TR	$555
Tower Module	Ethernet	7	AXISCDE100	$585
Tower Module	Ethernet	14	AXISCDE100D	$655
Tower Module	Ethernet or Fast ethernet	7	AXISCD/DVD	$765
Tower Module	Ethernet or Fast ethernet	14	AXISCD/DVDD	$955

VISA MasterCard

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The only system that supports Macintosh!

E100 features the fastest way to share CDs or DVDs across a network. Works with most operating systems, including Netware, Windows 95, 98, NT, Macintosh, Unix or Os2. Hard Disk caching provides blistering fast access to stacks of CDs or DVDs. (AXISCD/DVD) $765

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Windows NT multi server (SBENTME)	$879
Windows NT/2000 Exchange Server Agent (SBENTEX006)	$495
Windows NT/2000 SQL Agt E/F/G/S/I (SBENTSQ0007)	$565
Windows NT/2000 Server En (SBENTSR0000)	$569
Small Business Server Suite (SBENTSB)	$429
Netware single server & unlimited users (SBENWSE)	$449
Netware multi server (SBENWME)	$829

NovaStor

NovaBack CD contains backup software for DOS, Win 3.1, Windows 95, Win NT, and OS/2 Compatible with SCSI, IDE, and QIC drives (19801)	$55
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Server (29801)	$125
Workstation (29821)	$59
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SE for Windows NT/2000 (79210)	$299
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NovaNet 8 for NetWare	
SE (79310)	$319
Single Server for NetWare 25 User (79320)	$339
Single Server for NetWare 1000 User (79330)	$419
Unlimited for NetWare 25 User (79340)	$589
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15-30GB internal IDE w/software (OS30IDE)	$275
15-30GB internal SCSI w/software (OS30SCSI)	$435
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Easy to install - even easier to use.

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32X CD ROM w/sound (BACKPAC32XS)	$195
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8GB Hard Drive (BACKPACK8G)	$295
4x4x20 CD Rewritable (BACKPAC4X20)	$289

TAPE BACKUP

Seagate

Minicartridge

• Includes 1 FREE tape, cable, manual, Win/NTWS backup software

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TR5 10-20gig (STT220000A)	**$259**	**$389**	**$43**(TR5)
SCSI	*Int.*	*Ext.*	*Extra Tapes*
TR4 4-8gig (STT28000N)	**$229**	**$299**	**$25**(TR4)
SCSI RCVT Includes NT & Netware server software only. Features hardware data compression.			
TR4 4-8gig (STT28000NC)	**$349**	**$439**	**$25**(TR4)
TR5 10-20gig (STT220000N)	**$459**	**$549**	**$43**(TR5)

HEWLETT® PACKARD

Minicartridge

Includes 1 FREE tape, manual, , DOS/Win backup software

SCSI	Int.	Ext.	Extra Tapes
TR5 10-20gig (C4394A)	**$389**	**$479**	**$43**(TR5)

Exabyte®

7-14Gig	8mm,120MB/min, ELIANT820	$1159 $12 (DAT160M8MM)
20-40Gig	8mm,360MB/min, EXB8900	$2019 $80 (AME170)
140-280Gig	8mm, 180MB/min, EZ17SWK	$4399 $12 (DAT160M8MM)

HEWLETT® PACKARD

We include 5.25" mounting hardware with HP DAT!

4-8Gig	DDS-2, 60MB/min, C1599AI	$559 $9 (DAT120M)
12-24Gig	DDS-3, 120MB/min, C1554AI	$729 $20 (DAT125M)
20-40Gig	DDS-4, 180MB/min, C5686A	$1169 $45 (DAT150M)
72-144Gig	DDS-3, 120MB/min, C5648A	$1989 $20 (DAT125M)

Seagate

We include 5.25" mounting hardware with Seagate DAT!

2-4Gig	DAT-DC,66MB/min,STD24000N	$419 $8 (DAT90M)
4Gig	Mini, 30MB/min,STT28000N	$229 $24 (TRA)
4-8Gig	Mini, 60MB/min,STT28000NC	$349 $24 (TR4)
4-8Gig	DDS-2 DAT, 66MB/min, STD28000N	$535 $9 (DAT120M)
10-20Gig	Mini, 100MB/min,STT2200BARE	$295 $41 (TR5)
20-40Gig	DDS-4 DAT, 330MB/min, STD2401LW	$1039 $45 (DAT150M)
12-24Gig	DDS-3 DAT, 132MB/min, STD224000N	$689 $9 (DAT120M)
35-70Gig	AIT,360MB/min, STA2701W	$1759 $150 (STAE70)
48-96Gig	DDS-2 DAT, 66MB/min, STL496000N	$2039 $20 (DAT125M)

SONY

We include 5.25" mounting hardware with Sony DAT!

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12-24Gig	DDS-3 DAT, 144MB/min, SDT9000AI	$679 $20 (DAT125M)
20-40Gig	DDS-4 DAT, 288MB/min, SDT11000AI	$999 $45 (DAT150M)
12-96Gig	DDS-2 DATloader, 90MB/min, TSL9000	$1899 $20 (DAT125M)

Quantum

Get a DLT4 tape for only $68 when purchased with drive.

20-40Gig	DLT,180MB/min, DLT4000	$1350 $65 (DLT4)
	External, our case, DLT4000X	$1450 $65 (DLT4)
	External, Quantum case, DLT4000QX	$1550 $65 (DLT4)
35-70Gig	DLT, 600MB/min,DLT7000	$3759 $65 (DLT4)
	External, our case, DLT7000X	$3859 $65 (DLT4)
	External, Quantum case, DLT7000QX	$3959 $65 (DLT4)
40-80Gig	DLT, 600MB/min,DLT8000	$3999 $65 (DLT4)
	External, our case, DLT8000X	$4099 $65 (DLT4)
	External, Quantum case, DLT8000QX	$4199 $65 (DLT4)

DLT MEDIA SALE	1-4	5-9	10-49	50+
DLTIII 10-20GB (DLT3)	$36	$34	$32	$30
DLTIII XT 15-30GB (DLT3XT)	$39	$36	$34	$33
DLTIV 20-40GB (DLT4)	$69	$67	$65	$64
DLT Cleaning tape (DLTCLEAN)	$40	$39	$36	$35

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External SCSI for PC or Mac (ZIP250)	$169
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External for PC parallel port (PPZIP250)	$169
250MB disks (ZIP250C) QTY 2-9/QTY 10+	$19/$17

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• Backwards compatible with Jaz 1 Gig disks.

10ms read, 12ms write, 5394rpm, 512 buffer.

Internal SCSI (JAZ21)	$309
External SCSi (JAZ2X)	$315
1GB Disks (JAZC1GIGPC) Qty 2-4/5-9/10+	$80/$77/$75
2GB Disks (JAZC2GIGPC) Qty 2-4/5-9/10+	$85/$80/$77
JAZ ACCESSORIES	
ISA Controller (JAZJETISA)/PCI Controller (JAZJETPCI)	$89/$95
PCMCIA Type II Adapter (JAZPCMCIA)	$109
Parallel Adapter Jaz Traveller (JAZPARALLEL)	$49

Clik PC Card Drive

40MB Clik card drive for PCs **$179** limited time offer.

SONY

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BACK UP YOUR DATA NOW!

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AIT Media

35GB (SDX135C)	1-4 **$89**	5-9 **$87**	10-49 **$85**	50+ **$80**
50GB (SDX250C)	1-4 **$129**	5-9 **$125**	10-49 **$120**	50+ **$115**

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12-24GB DDS-3 4mm DAT Drive

Backup up to 24GB of compressed data at speeds up to 144MB/min. This is the fastest drive in its' class.

SCSI drive W/5.25" mounting hardware (SDT90000AI)

$679

20-24GB DDS-4 4MM DAT Drive

Back up to 40GB of compressed data at speeds up to 288MB/min. Ultra-2 SCSI interface. Huge 10MB data buffer. Backwards read compatible with DDS 1,2, and 3.

SCSI drive w/5.25" mntg hardware (SDT11000AI)

$999

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REMOVABLE DRIVE BRACKETS

Turn any 3 1/2" drive into a removable

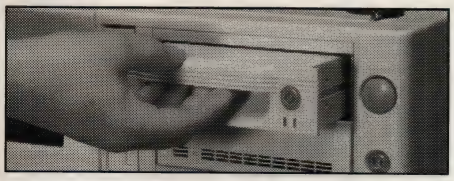
Possible applications:

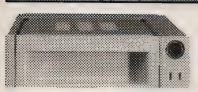
Data Security:
- Hard drives can be easily removed and locked away.
- Backup from an existing drive to a removable hard drive for THE FASTEST backup speed available, then remove and store it away.

Data Transfer:
- Hard drives are much faster than other removable media solutions, moving your data to a removable hard drive and taking it to a service bureau is much faster than other solutions.
- When working on large files on the office computer, transfer to the computer at home is easily accomplished in seconds.

Drive/data Sharing:
- All drives of the same interface family can easily be moved among multiple computers.
- A single copy of software can be loaded onto a drive and moved form one computer to the other.
- Separate drives can be loaded with different operating systems and you can boot off of that operating system.

Easy Upgrade/Replacement:
- To upgrade your drive, just unplug and install the new drive. It's so easy, there's no need to open the computer.
- Easy drive exchange makes these drives perfect for RAID applications.





DATAPORT IV Removable Drive Brackets

SCSI ID switch, and gold plated connectors. Plastic construction with metal top and bottom covers on cartridge.

COMPLETE KIT	
Includes 1 frame, and 1 cartridge	
IDE with plastic cartridge (TRANSIDE)	$59
SCSI with plastic cartridge (TRANSSCSI)	$59
EXTRA CARTRIDGE	
Plastic IDE (TRANSIDECA)	$35
Plastic SCSI (TRANSSCSICA)	$35
EXTRA FRAME	
IDE (TRANSIDEFR)	$29
SCSI (TRANSSCSIFR)	$29

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DATAPORT V Removable Drive Brackets

High quality construction. Gold plated connections. Features built in cooling fan, SCSI ID switch. Metal frame construction. Plastic cartridge with metal top and bottom covers.

COMPLETE KIT	PLATINUM	BLACK
Includes 1 frame, and 1 cartridge		
IDE 66 with plastic cartridge (DP2200A66)	$85	n/a
IDE 66 with metal cartridge (DP2200AM66)	$95	$109
Ultra Wide SCSI (DP2200UW)	$139	$159
EXTRA CARTRIDGE		
Plastic IDE 66 (DPACART66)	$42	n/a
Metal IDE 66 (DPACARTM66)	$62	$79
Ultra Wide SCSI (DPUWCART)	$69	$89
EXTRA FRAME		
IDE 66 (DPAFRAME66)	$52	
Ultra Wide SCSI (DPUWFRAME)	$79	

DATAPORT VI *Removable Drive Brackets*

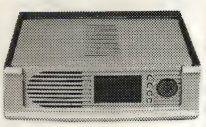
High quality construction. Gold plated connections. Features built in cooling fan with audible fan failure alarm, SCSI ID switch. Metal frame and cartridge construction.

COMPLETE KIT	PLATINUM	BLACK
Includes 1 frame, and 1 cartridge		
Ultra SCSI (DP2200SM)	$89	$129
Ultra Wide SCSI (DP2200UWM)	$149	$169
SCA (uses SCA drives) (DP2200SCA)	$139	$159
EXTRA CARTRIDGE		
Ultra SCSI (DPSCARTM)	$59	$79
Ultra Wide SCSI (DPUWCARTM)	$89	$109
SCA (uses SCA drives) (DPSCACART)	$89	$109
EXTRA FRAME		
Ultra SCSI (DPSFRAMEL)	$59	
Ultra Wide SCSI (DPUWFRAMEA)	$69	
SCA (DPSCAFRAME)	$79	
ACCESSORIES for DataPort V and VI		
Cover plate to cover opening when cartridge is removed (DPFPLATE)	$8	$10

DATAPORT VII Removable Drive Bracket

High quality DataPort series made for 10,000rpm drives with dual cooling fans.

COMPLETE KIT	
Includes 1 frame, and 1 cartridge	
IDE (metal cartridge) (DP2200A7)	$129
Ultra SCSI (DP2200S7)	$139
Ultra Wide SCSI (DP2200W7)	$149
EXTRA FRAME	
IDE/Ultra SCSI/Ultra Wide SCSI	$69/$79/$89
EXTRA CARTRIDGE	
IDE/Ultra SCSI/Ultra Wide SCSI	$79/$89/$89



DATAPORT VIII Removable Drive Bracket

High quality construction. Gold plated connections. Features 2 built in cooling fans (one front, one rear), SCSI ID switch. Metal frame and cartridge construction. LCD display shows time, drive temperature, SCSI ID, and voltage.

COMPLETE KIT	PLATINUM	BLACK
Includes 1 frame, and 1 cartridge		
Ultra Wide SCSI (DP2200W8)	$159	$169
EXTRA CARTRIDGE		
Ultra Wide SCSI (DP8CART)	$79	$89
EXTRA FRAME		
Ultra Wide SCSI (DP8FRAME)	$89	

CARRYING CASE

Fits all removable cartridges. Great for safe transportation and storage once the cartridge is removed. Internal padding for shock protection. Metal case (DPCASEM) $35

Take your data - and your drive - with you when you go.

DRIVE CASES

Models available with redundant hot swap power supplies.

3.5" Drive Case
- w/ closed, 1", and 1.6" open face plates.

Ultra (3.5CASEC)	$69
Ultra Wide SCSI (3.5CASECW)	$89
Ultra 160 SCSI (comp w/ U-2) (3.5CASE160)	$109
Parallel/IDE closed & 1" open face (PPCASEHD)	$79
PCMCIA/IDE closed & 1" open face (PCMCIA3.5)	$119

5.25" Drive Case
with closed, 1", 1.6", and CD face plates.

Ultra (HHCASET)	$59
Ultra Wide SCSI (HHCASETW)	$89
Ultra 160 SCSI (comp w/ U-2) (HHCASET160)	$99
Parallel/IDE closed & open face (PPCASECD)	$89
PCMCIA/IDE open&closed face (PCMCIACD)	$129

Two Drive Case
Holds 2 half height or 1 full height drive.

Ultra (FHCASE)	$89
Ultra Wide SCSI (FHCASEW)	$129
Ultra 160 SCSI (comp w/ U-2) (FHCASE160)	$139
Dual 3.5" drive model (not shown)	
Ultra (DUAL3.5CASE)	$89
Ultra Wide SCSI (DUAL3.5CW)	$109
Ultra 160 SCSI (comp w/ U-2) (DUAL3.5C160)	$129

Four Drive Case
Holds 4 half height or 2 full height drives.

Ultra (DUALCASET)	$109
Ultra Wide SCSI (DUALCASETW)	$129
Ultra 160 SCSI (comp w/ U-2)(DUALCASE160)	$139

Eight Drive Case
Holds 8 half height or 4 full height drives.

Ultra (TOWERCASET)	$189
Ultra Wide SCSI (TOWERCASETW)	$209
Ultra 160 SCSI (comp w/ U-2) (TOWERCSE160)	$229

Fourteen Drive Case
Holds 14 half height or 6 full height drives.

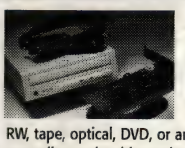
Ultra (14BAYCASE)	$419
Ultra Wide SCSI (14BAYCASEFW)	$439
Ultra 160 SCSI (comp w/ U-2)(14BAYCSE160)	$449

Eighteen Drive Case
Holds 18 half height or 8 full height drives.

Ultra (18BAYCASE)	$599
Ultra Wide SCSI (18BAYCASEFW)	$619
Ultra 160 SCSI (comp w/ U-2)(18BAYCSE160)	$639

Twenty Drive Case
Holds 20 half height or 10 full height drives.

Ultra (20BAYCASE)	$679
Ultra Wide SCSI (20BAYCASEFW)	$699
Ultra 160 SCSI (comp w/ U-2) (20BAYCSE160)	$719



Hot Port External IDE Case

The perfect way to turn any IDE drive into an external. Great for Hard drives, CD ROM, CD-R, CD-RW, tape, optical, DVD, or any other IDE drive. Includes IDE controller card, cable, and case. Power goes through the data cable so no awkward power cables. Perfect for sharing drives among multiple computers. TWICE as fast. as an external parallel port case and cheaper than SCSI. (HOTPORT) $129

Extra HotPort controller (HOTCT) $59

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T1460A2KIT	PCMCIA type 2, 3, or 4 to SCSI		$125
T1480A	CardBus to Ultra SCSI		$169
AAA131U2	PCI RAID controller for Ultra-2		$435
AAA133U2	PCI Ultra-2 RAID 3 channel controller		$695
ARO1130U2	RAIDPORT II Ultra-2 RAID controller		$269
A2940UKIT	PCI 32 bit Ultra SCSI controller		$229

NEW Ultra 160 Controllers

A19160B	Ultra 160 SCSI bare card	$169
A19160	Ultra 160 SCSI controller w/SpeedFlex software	$239
A39160	Ultra 160 SCSI 64 bit PCI 2 channel	$359
A29160B	Ultra 160 SCSI 64 bit bare card	$229
A29160	Ultra 160 SCSI 64 bit single channel	$299
A29160N	Ultra 160 SCSI 32 bit PCI controller	$289
APD29160MAC	Ultra 160 SCSI controller for Macintosh	$295
APD39160MAC	Ultra 160 SCSI controller for Macintosh FAST!	$399
AAAUDMAKIT	PCI 4 channel UDMA/66 RAID	$419

NEW From Adaptec - ReZoom

Disaster Recovery software. Easy to use software allows you to back up from IDE or SCSI hard drive. Simple one click operation. $69

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PM2654U2R16 Ultra-2 w/RAID 0,1,5,0+1,0+5,&16MB	$699
PM2654U2R26 twin channel of above	$825
PM2654U2R36 three channel of above	$945
PM3755U2BB1 64 bit PCI, 1 channel U2 SCSI RAID	$1419
PM3755U2BB2 64 bit PCI, 2 channel U2 SCSI RAID	$1559
PM3755U2BB3 64 bit PCI, 3 channel U2 SCSI RAID	$1669
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ARCO COMPUTER PRODUCTS, INC.

- Hardware RAID 1 (mirroring) works with most operating systems.
- Jumperless design, 100% data redundancy, 4 drive support
- Works off of existing IDE controller

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DC390U	32 Bit PCI Ultra SCSI controller	$79
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DC390U2W	32 Bit PCI Ultra-2 SCSI Dual Channel controller	$159

PROMISE TECHNOLOGY, INC.

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EIDEPRO	ISA, Supports 4 IDE, & High speed 10	$49
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FASTTRAK66	PCI, Supports Ultra ATA-66 IDE drives	$95

WE KNOW RAID

Dirt Cheap Drives can custom configure a RAID tower to meet your needs. Here are a few popular components. We stock many other RAID components. Check us out on the web or give us a call.

IDE RAID CASE

Incredible quality. Extremely well built. Just add up to 6 IDE drives of any capacity, and an Ultra Wide SCSI controller to your computer and you are ready for high performance, fault tolerant RAID. Features hot swap drive shuttles, 4 cooling fans, and redundant hot swap power supplies. Run as RAID 0 or 5. Supports all major operating systems. ***CALL FOR THE DEAL!***

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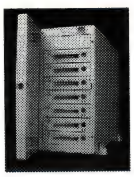
Rack Mount Model (IDERAIDRACK) $1999

RAID SUITABLE ENCLOSURES

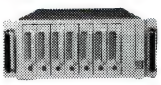
These hard drive enclosures are perfect for RAID or multiple drive applications. They feature hot swapable drive shuttles, and large cooling fans. These cases use a special backplane technology that allows you to use Wide SCSI, Ultra Wide SCSI, or Ultra-2 LVD hard drives without the normal cable length problems. Add drives and a DPT or Adaptec RAID controller for your complete high end RAID solution.

2 Drive Desktop Model (FHCASEUSW) $589

4 Drive Desktop Model (DUALCASEUSW) $729



		PLASTIC	BLACK
7 Drive Desktop Model			
(QUADCASEUSW)	U,UW, W	$1399	$1419
(QUADCASEU7)	SCA	$1499	$1519
8 Drive Desktop Model			
(QUADCASE8U2)	U,UW, W	$1499	$1519
(QUADCASEU2)	SCA	$1599	$1619



		PLASTIC	BLACK
7 Drive Desktop Model			
(RACKCASEUSW)	U,UW, W	$1429	$1449
(RACKCASEU7)	SCA	$1529	$1549
8 Drive Desktop Model			
(RACKCASE8U2)	U,UW, W	$1529	$1549
(RACKCASEU2)	SCA	$1629	$1649

IDE RAID 1

IDE RAID has never been this easy. Simply install the bay mount RAID controller unit in a 3.5" drive bay, connect two same size IDE hard drives and boot-up. The unit does the rest for you. Totally transparent and requires no special command. Provides RAID 1 mirroring and features an audible alarm to alert you of drive failure. This is a great product. (ARDUPRAID) $199
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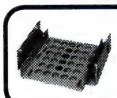
Deluxe (VHDFAN) $20



Shock Mount Bracket

- Mounts in 5 1/4" HH bay
- Provides shock protection via rubber isolators for 3 1/22" drives. (SBRACKET) $35

Hot swappable drive setup for SCA drives

- Quality metal construction & front cooling fan!
- Mount three 1" high SCA drives in a single 5 1/4" full height drive bay. (SCA3DR-LVD) $229 or $309 for ext.

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Umax 120 x 2400 dpi Flatbed Scanner w/bundled software:		
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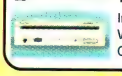
PIONEER 16x40 DVD/CD-Rom Drive



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USB to SCSI Adapter #USBSCSI		$69
SuperDisk Drive 120MB & Floppy Reads Mac & PC #USBLS120		$149
Floppy Drive for iMac Reads/writes Mac & PC #USBFLOPPY		$85
8GB Hard Drive #USB8GB		$169
13GB Hard Drive #USB13GB		$195
17GB Hard Drive #USB17GB		$199
20GB Hard Drive #USB20GB		$215
30GB Hard Drive #USB30GB		$279

www.dirtcheapdrives.com/shop 1-800-525-0360

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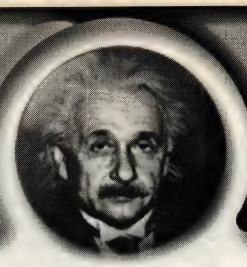

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SIMMS 72-PIN & 30-PIN

NON-PARITY 72 PIN-60		
4MB	1X32	$12
8MB	2X32	$17
16MB	4X32	$44
32MB	8X32	$88
EDO 72 PIN-60		
4MB	1X32 EDO	$12
8MB	2X32 EDO	$20
16MB	4X32 EDO	$44
32MB	8X32 EDO	$88
TRUE PARITY 72 PIN-60		
8MB	2X36-60	$30
16MB	4X36-60	$47
32MB	8X36-60	$110
30-PIN MEMORY		
4MB	LOGIC PARITY	$13
4MB	TRUE PARITY	$18

DESKTOP MEMORY

SDRAM 168-Pin 3.3 Volt Unbuffered with Gold Contacts

SDRAM 66MHz		
32MB	4X64	$36
64MB	8X64	$57
128MB	16X64	$110
PC100 SDRAM 100MHz		
64MB	8X64-100	$57
128MB	16X64-100	$110
256MB	32X64-100	$235
PC100 ECC SDRAM 100MHz		
64MB	8X72-100 ECC	$69
128MB	16X72-100 ECC	$125
256MB	32X72-100 ECC	$269
PC100 CAS 2 SDRAM 100MHz		
64MB	8X64-100 CAS 2	$65
128MB	16X64-100 CAS 2	$125
PC100 CAS 2 ECC SDRAM 100MHz		
64MB	8X72-100 CAS 2	$79
128MB	16X72-100 CAS 2	$135
PC133 SDRAM 133MHz		
64MB	8X64-133	$62
128MB	16X64-133	$119
256MB	32X64-133	$235
CORSAIR MEMORY		
64MB	PC100	$79
64MB	PC100 CAS2	$79
64MB	PC133	$79
128MB	PC100	$155
128MB	PC100 CAS2	$155
128MB	PC133	$159

PROCESSORS

B = 133MHz 512K Cache
E = 100MHz 256K Cache Coppermine
EB = 133MHz 256K Cache Coppermine

Intel Pentium® III Slot 1	
Intel PIII-500	$173
Intel PIII-533B	$193
Intel PIII-533EB	$206
Intel PIII-550	$224
Intel PIII-550E	$207
Intel PIII-600	$315
Intel PIII-600E	$262
Intel PIII-600B	$245
Intel PIII-600EB	$238
Intel PIII-650E	$315
Intel PIII-667EB	$332
Intel PIII-700E	$419
Intel PIII-733EB	$580
Intel PIII-750E	$564
Intel PIII-800E	$680
Intel Pentium®III Socket 370 Flip Chip	
Intel PIII-550E	$191
Intel PIII-600E	$226
Intel PIII-600EB	$225
Intel PIII-650E	$282
Intel PIII-667EB	$310
Intel PIII-700E	$379
Intel PIII-733EB	$476
Intel PIII-750E	$521

Intel Celeron® Socket 370 Processors	
Intel Celeron 433A PPGA	$84
Intel Celeron 466A PPGA	$89
Intel Celeron 500A PPGA	$99
Intel Celeron 533A PPGA	$122
AMD-K6™ / K7™ Athlon™ Processors	
AMD-K6-2 450MHz Processor	$55
AMD-K6-2 500MHz Processor	$61
AMD-K6-2 533MHz Processor	$83
AMD-K6-2 550MHz Processor	CALL
AMD-K7 Athlon™ 550MHz Processor	$165
AMD-K7 Athlon™ 600MHz Processor	$182
AMD-K7 Athlon™ 650MHz Processor	$211
AMD-K7 Athlon™ 700MHz Processor	$240
AMD-K7 Athlon™ 750MHz Processor	$348
AMD-K7 Athlon™ 800MHz Processor	$454
AMD-K7 Athlon™ 850MHz Processor	$650
AMD-K7 Athlon™ 900MHz Processor	$740

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(CALL OR CHECK OUR WEBSITE FOR MODELS NOT LISTED)

ACER	8MB	16MB	32MB	64MB	BATTERY
Light 350, E, 352, 355, 763-880 Series	$25	$46			$149
760i, 760ic	$25	$46			N/A
AST	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
Ascentia 800/810 Series		$66			$119
Ascentia J Series Kit	$28	$50	$92		$205
Ascentia P Series	$45	$69	$109		$299
COMPAQ	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
Contura 4/25 C, 4/25, 4/25CX	$42	$68			$119
Contura AERO Series	$55	$55			$119
Contura 400/10/20/30 Series	$40	$65			$119
Presario 1600 Series			$41	$77	$140
Presario 1200 Series		$38	$38	$73	$140
Presario 1010/20/30/60/65/70/75/80		$48	$94		CALL
DELL	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
Latitude 433m-475mc Series		$66			$119
Latitude LX Series 410D/T/4750		$66			$119
Latitude XP/XPI Series	$28	$46	$65		$219
Latitude LM Series		$51	$92	$117	N/A
FUJITSU	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
Milan, Montego, Monte Carlo & Lifebook	$27	$48	$60		N/A
Lifebook 600, 700, 900, B, C, E L		$38	$58	$73	N/A
IBM	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
Think Pad 345/355/360 Series	$42	$68			$119
Think Pad 365X/XD Series	$29	$48	$57		$119
Think Pad 760EX/ED/E/EL/XD/XL Series	$29	$48	$57	$116	$145
Think Pad 750-755 Series		$101	$191		$169
NEC	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
Ultra Lite Versa Series	$62	$76			$134
Versa M/P 4000 Series	$62	$76	$109		CALL
Versa 6000 Series		$74	$123	$213	N/A
SHARP	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
PC-3010/20/40/50/60 Series	$25	$46			$145
PC-87/88/8900 Series		$70			$132
PC-9040/70 Series	$25	$46			N/A
PC-9000 Series		$66	$117		$145
SONY	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
VAIO Series		$55	$107	$207	
TOSHIBA	**8MB**	**16MB**	**32MB**	**64MB**	**BATTERY**
T2100 Series	$32	$52			$119
T1900/46/47/48/4900 Series	$48	$69			CALL
Satellite Pro 100/200/400 Series	$37	$58	$97		$119
Satellite Pro 300/500/2500 Series		$50	$57	$110	CALL
Tecra 750/780 Series		$50	$57	$110	CALL
Tecra 8000 Series			$55	$105	CALL

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EIDE UDMA/66

WESTERN DIGITAL		
6.4 GB	5400RPM	$97
8.4 GB	5400RPM	$103
10.2 GB	5400RPM	$112
13.6 GB	5400RPM	$135
20.5 GB	5400RPM	CALL

Seagate		
6.5 GB	5400RPM	$89
8.6 GB	5400RPM	$97
13.0 GB	5400RPM	$125
17.0 GB	5400RPM	$135

HP PRINTERS MEMORY	2MB	4MB	8MB
LaserJet 4P,MP,V/5,P,MP,N,SI/6P,MP,PXI	$16	$20	$34
LaserJet III, D, P/IIP, Plus	$35	$42	

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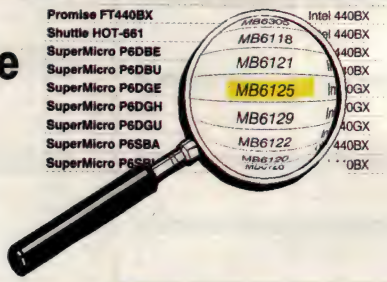

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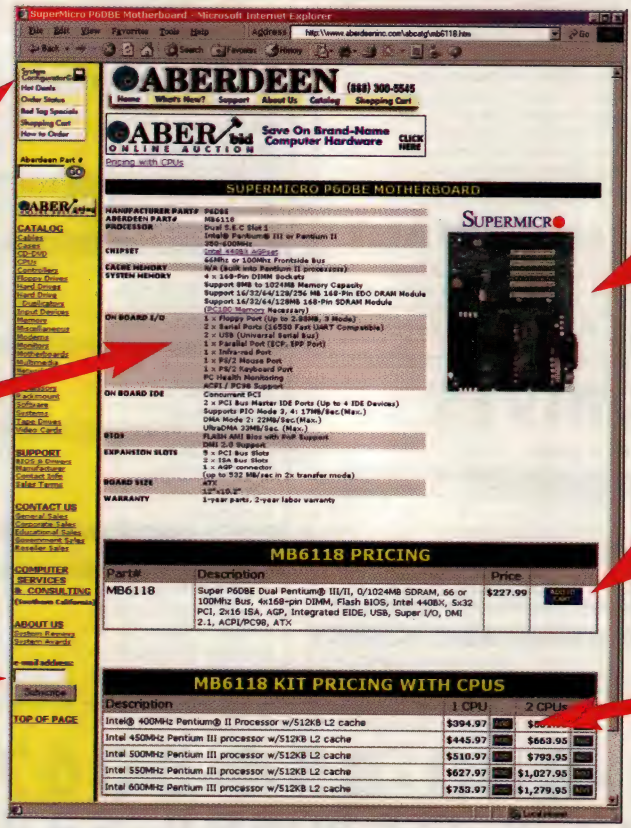

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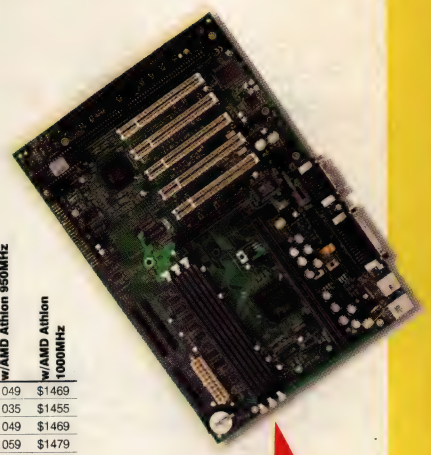
Part Number	Chip Set	L2 Cache (KB)	Maximum Memory (MB)	168-pin DIMM Sockets	72-pin SIMM Sockets	Flash BIOS	Integrated Audio	Integrated Controller	PCI Slots	ISA Slots	AGP Slot	Format	Manufacturer's Warranty	Motherboard Only	w/AMD-K6-2/500	w/AMD-K6-2/550	w/Intel® Pentium® MMX™ 233MHz
Asus P5A-B	MB5711	ALi Aladdin V	512	384	3	Award			3	2	1	Baby AT	1 Yr.	$98	$157	$183	$143
EPoX EP-MVP3C2	MB5406	VIA Apollo MVP3	512	384	3	Award		UltraDMA/66	4	2	1	Baby AT	2 Yrs.	$82	$141	$167	$127
EPoX EP-MVP3G5	MB5405	VIA Apollo MVP3	2048	384	3	Award		UltraDMA/66	5	2	1	ATX	2 Yrs.	$106	$165	$191	$151
FIC PA-2013 (2MB Cache)	MB5214	VIA Apollo MVP3	2048	384	3	Award			4	2	1	ATX	1 Yr.	$103	$162	$188	$148
FIC VA-503+	MB5211	VIA Apollo MVP3	1024	512	2	4 Award			3	3	1	Baby AT	1 Yr.	$76	$135	$161	$121
Shuttle HOT-591P	MB5611	VIA Apollo MVP3	512	256	2	2 Award			3	3	1	Baby AT	1 Yr.	$77	$136	$162	$122
Tyan S1590S Trinity 100AT	MB5006	VIA Apollo MVP3	1024	384	3	2 Award			4	4	1	Mini AT	3 Yrs.	$95	$154	$180	$140
Tyan S1598 Trinity ATX	MB5008	VIA Apollo MVP3	2048	384	3	Award		UltraDMA/66	5	2	1	ATX	3 Yrs.	$121	$180	$206	$166



Slot A

Part Number	Chip Set	Maximum Memory (MB)	168-pin DIMM Sockets	Flash BIOS	Bus Frequency	Integrated Controller	PCI Slots	ISA Slots	AGP Slot	Format	Manufacturer's Warranty	Motherboard Only	w/AMD Athlon™ 650MHz	w/AMD Athlon 700MHz	w/AMD Athlon 750MHz	w/AMD Athlon 800MHz	w/AMD Athlon 850MHz	w/AMD Athlon 900MHz	w/AMD Athlon 950MHz	w/AMD Athlon 1000MHz
ABIT KA7	MB7501	VIA Apollo KX133	2048	4	Award	200/133	UltraDMA/66	6	1	1	ATX	1 Yr.	$179	$369	$404	$464	$559	$689	$849	$1049	$1469
AMI Megathon	MB7301	AMD-751 / VIA 686A	768	3	Award	100	UltraDMA/66	5	1	1	ATX	1 Yr.	$165	$355	$390	$450	$545	$675	$835	$1035	$1455
Asus K7M	MB7701	AMD-751 / VIA 686A	768	3	Award	100/120/133	UltraDMA/66	5	1	1	ATX	1 Yr.	$179	$369	$404	$464	$559	$689	$849	$1049	$1469
Asus K7V	MB7703	VIA Apollo KX133	1536	3	Award	200/133	UltraDMA/66	5		1	ATX	1 Yr.	$189	$379	$414	$474	$569	$699	$859	$1059	$1479
EPoX EP-7KXA	MB7850	VIA Apollo KX133	768	3	Award	200/133	UltraDMA/66	5	1	1	ATX	2 Yrs.	$139	$329	$364	$424	$519	$649	$809	$1009	$1429
FIC SD11	MB7401	AMD-751 / VIA 686A	768	3	Award	100	UltraDMA/66	5	1	1	ATX	1 Yr.	$109	$299	$334	$394	$489	$619	$779	$979	$1399
Microstar K7 Pro	MB7202	AMD-750	768	3	Award	100	UltraDMA/66	6	1	1	ATX	1 Yr.	$154	$344	$379	$439	$534	$664	$824	$1024	$1444
Shuttle AI61	MB7901	AMD-750	768	3	Award	100	UltraDMA/66	5		1	MicroATX	1 Yr.	$125	$315	$350	$410	$505	$635	$795	$995	$1415
Tyan S2380 Trinity K7	MB7000	VIA Apollo KX133	768	3	Award	200/133	UltraDMA/66	6	1	1	ATX	3 Yrs.	$179	$369	$404	$464	$559	$689	$849	$1049	$1469

Socket 370

Part Number	Chip Set	Maximum Memory (MB)	168-pin DIMM Sockets	Flash BIOS	Integrated Audio	Integrated Video	PCI Slots	ISA Slots	AGP Slot	AMR Slot	Format	Manufacturer's Warranty	Motherboard Only	w/Intel® Celeron™ processor 500/A MHz 128K OD 66MHz FSB	w/Intel Celeron 566 128K OD 66MHz FSB	w/Intel Celeron 600 128K OD 66MHz FSB	w/Intel Celeron 633 128K OD 66MHz FSB	w/Dual Intel Celeron 633 128K OD 66MHz FSB	w/Intel Pentium® III 650/667 256K OD 100/133MHz FSB	w/Intel Pentium III 733 256K OD 133MHz FSB	w/Intel Pentium III 750 256K OD 100MHz FSB	w/Intel Pentium III 800/EB 256K OD 100/133MHz FSB	w/Intel Pentium III 866 256K OD 133MHz FSB
ABIT BP6 (Dual)	MB6506	Intel 440BX	768	3	Award			5	2	1		ATX	1 Yr.	$149	$234	$259	$284	$319	$489	N/A	N/A	N/A	N/A
ASUS CUC2000	MB6724	Intel® 820	1024	4	Award	AC-97		5	1	1	1	ATX	1 Yr.	$177	$262	$287	$312	$347	N/A	$407	$467	$577	$637	$847
EPoX EP-3VCA	MB6854	VIA Apollo Pro 133A	768	3	Award	AC-97		4	1	1	1	ATX	2 Yrs.	$105	$190	$215	$240	$275	N/A	$335	$395	$505	$565	$775
Shuttle ME64	MB6310	Intel 810E	512	2	Award	Intel 810E	Intel 810E	3			1	Micro ATX	1 Yr.	$116	$201	$226	$251	$286	N/A	$346	$406	$516	$576	$786
SuperMicro 370SCD	MB6159	Intel 820	512	2	AMI	AC-97		5		1	1	ATX	1 Yr.	$147	$232	$257	$282	$317	N/A	$377	$437	$547	$607	$817
SuperMicro 370SEA	MB6140	Intel 810E	512	2	AMI	Intel 810E	Intel 810E	6	1		1	ATX	1 Yr.	$146	$231	$256	$281	$316	N/A	$376	$436	$546	$606	$816
Tyan S1857 Trinity 371	MB6017	Intel 440BX	768	3	AMI			6	1	1		ATX	3 Yrs.	$105	$190	$215	$240	$275	N/A	N/A	N/A	N/A	N/A	N/A
Tyan S1854 Trinity 400	MB6018	VIA Apollo Pro 133A	768	3	Award			6	1	1		ATX	3 Yrs.	$104	$189	$214	$239	$274	N/A	$334	$394	$504	$564	$774

Slot 1

Part Number	Chip Set	Maximum Memory (MB)	168-pin DIMM Sockets	168-pin RIMM Sockets	Flash BIOS	Integrated Audio	Integrated Controller	PCI Slots	ISA Slots	AGP Slot	Format	Manufacturer's Warranty	Motherboard Only	w/Intel® Pentium III® 550 512K 100MHz FSB	w/Intel Pentium III 650/667 256K OD 100/133MHz FSB	w/Intel Pentium III 700 256K OD 100MHz FSB	w/Intel Pentium III 733 256K OD 133MHz FSB	w/Intel Pentium III 750 256K OD 100MHz FSB	w/Intel Pentium III 800/EB 256K OD 100/133MHz FSB	w/Intel Pentium III 850 256K OD 100MHz FSB	w/Intel Pentium III 866 256K OD 133MHz FSB	w/Dual Intel Pentium III 550 512K 100MHz FSB	w/Dual Intel Pentium III 750 256K OD 100MHz FSB
ABIT BE6-II	MB6508	Intel 440BX	768	3		Award	UltraDMA/66	5	1	1	ATX	1 Yr.	$137	$332	$367	$427	N/A	$537	$597	N/A	N/A	N/A	N/A
ABIT BF6	MB6507	Intel 440BX	768	3		Award		6	1	1	ATX	1 Yr.	$116	$311	$346	$406	N/A	$516	$576	N/A	N/A	N/A	N/A
ABIT VA6	MB6509	VIA Apollo Pro 133	768	3		Award	AC-97 UltraDMA/66	5	2	1	ATX	1 Yr.	$89	$284	$319	$379	$389	$489	$549	$749	$759	N/A	N/A
ABIT VT6X4	MB6510	VIA Apollo Pro 133A	768	3		Award	AC-97 UltraDMA/66	5	2	1	ATX	1 Yr.	$108	$303	$338	$398	$408	$508	$568	$768	$778	N/A	N/A
Asus P2B-DS	MB6707	Intel 440BX	1024	4		Award		4	2	1	ATX	1 Yr.	$479	$674	$709	$769	N/A	$879	$939	N/A	N/A	$869	$1279
Asus P3B-F	MB6720	Intel 440BX	1024	4		Award		6	1	1	ATX	1 Yr.	$137	$332	$367	$427	N/A	$537	$597	N/A	N/A	N/A	N/A
Asus P3C2000	MB6722	Intel 820	1024	4		Award	AC-97 UltraDMA/66	5	1	1	ATX	1 Yr.	$166	$361	$396	$456	$466	$566	$626	$826	$836	N/A	N/A
Asus P3V4X	MB6723	VIA Apollo Pro 133A	1024	4		Award	UltraDMA/66	6	1	1	ATX	1 Yr.	$118	$313	$348	$408	$418	$518	$578	$778	$788	N/A	N/A
EPoX EP-6VBA2	MB6855	VIA Apollo Pro 133A	768	3		Award	AC-97 UltraDMA/66	4	2	1	ATX	2 Yrs.	$109	$304	$339	$399	$409	$509	$569	$769	$779	N/A	N/A
FIC KA11	MB6411	VIA Apollo Pro 133A	1024	4		Award	UltraDMA/66	5	2	1	ATX	1 Yr.	$99	$294	$329	$389	$399	$499	$559	$759	$769	N/A	N/A
Intel CC820	MB6919	Intel 820	512	2		Intel/Phoenix	UltraDMA/66	5		1	ATX	3 Yrs.	$154	$349	$384	$444	$454	$554	$614	$814	$824	N/A	N/A
Intel SE440BX-2 "Seattle"	MB6921	Intel 440BX	768	3		Intel/Phoenix		4	2	1	ATX	3 Yrs.	$113	$308	$343	$403	N/A	$513	$573	N/A	N/A	N/A	N/A
Shuttle AV64	MB6309	VIA Apollo Pro 133A	768	3		Award	UltraDMA/66	5	2	1	ATX	1 Yr.	$92	$287	$322	$382	$392	$492	$552	$752	$762	N/A	N/A
SuperMicro P6DGH	MB6129	Intel 440GX	2048	4		AMI	Adaptec 2-Ch U2W	9	2	1	Full AT	1 Yr.	$829	$1024	$1059	$1119	N/A	$1229	$1289	$1489	N/A	$1219	$1629
SuperMicro P6SBA	MB6120	Intel 440BX	768	3		AMI		4	3	1	ATX	1 Yr.	$104	$299	$334	$394	N/A	$504	$564	$764	N/A	N/A	N/A
SuperMicro P6SBU	MB6128	Intel 440BX	1024	4		AMI	Adaptec U2W	4	3	1	ATX	1 Yr.	$329	$524	$559	$619	N/A	$729	$789	$989	N/A	N/A	N/A
SuperMicro PIIIDM3	MB6153	Intel 840	4096	4		AMI	AC-97 Adaptec Ultra3/160	6		1	ATX	1 Yr.	$579	$774	$809	$869	$879	$979	$1039	$1239	$1249	$969	$1379
SuperMicro PIIIDME	MB6151	Intel 840	4096	4		AMI	AC-97 Intel PRO/100+	6		1	ATX	1 Yr.	$359	$554	$589	$649	$659	$759	$819	$1019	$1029	$749	$1159
SuperMicro PIIISCD	MB6146	Intel 820	512	2		AMI	AC-97 UltraDMA/66	5		1	ATX	1 Yr.	$152	$347	$382	$442	$452	$552	$612	$812	$822	N/A	N/A
SuperMicro PIIISED	MB6142	Intel 810e	512	2		AMI	AC-97 UltraDMA/66	6			ATX	1 Yr.	$123	$318	$353	$413	$423	$523	$583	$783	$793	N/A	N/A
Tyan S1854 Trinity 400	MB6018	VIA Apollo Pro 133A	768	3		Award	UltraDMA/66	6	1	1	ATX	3 Yrs.	$104	$299	$334	$394	$404	$504	$564	$764	$774	N/A	N/A

Slot 2

Part Number	Chip Set	Maximum Memory (MB)	168-pin DIMM Sockets	Flash BIOS	Integrated Audio	Integrated Controller	Integrated Networking	PCI Slots	ISA Slots	AGP Slot	Format	Manufacturer's Warranty	Motherboard Only	w/Intel® Pentium III® Xeon™ 550MHz 512K 100MHz FSB	w/Intel Xeon 550MHz 1M 100MHz FSB	w/Intel Xeon 550MHz 2M 100MHz FSB	w/Dual Intel Xeon 550MHz 512K 100MHz	w/Quad Intel Xeon 550MHz 512K 100MHz	w/Intel Xeon 700MHz 1M 100MHz FSB	w/Intel Xeon 700MHz 2M 100MHz FSB	w/Intel Xeon 800MHz 1M 100MHz FSB	w/Intel Xeon 800MHz 2M 100MHz FSB
SuperMicro S2DM3	MB6156	Intel 840	4096	4	AMI	AC-97	Adaptec Ultra3/160m	Intel PRO/100+	6		1	ATX	1 Yr.	$669	$1769	$2999	$5009	$2869	N/A	$2069	$3019	$3039	$5069
SuperMicro S2DME	MB6160	Intel 840	4096	4	AMI	AC-97		Intel PRO/100+	6		1	ATX	1 Yr.	$449	$1549	$2779	$4789	$2649	N/A	$1849	$2799	$2819	$4849
SuperMicro S2DG2	MB6136	Intel 440GX	2048	4	AMI		Adaptec 2-Ch U2W		5	2	1	ATX	1 Yr.	$549	$1649	$2879	$4889	$2749	N/A	N/A	N/A	N/A	N/A
SuperMicro S2QR6	MB6190	Reliance HE	16384	16	AMI		AIC-7899 2-Ch Ultra160	Intel 82559	8			SWTX	1 Yr.	$2749	$3849	$5079	$7089	$4949	$7149	$4149	$5099	$5119	$7149

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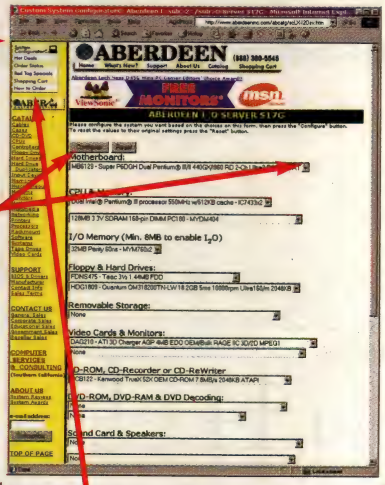

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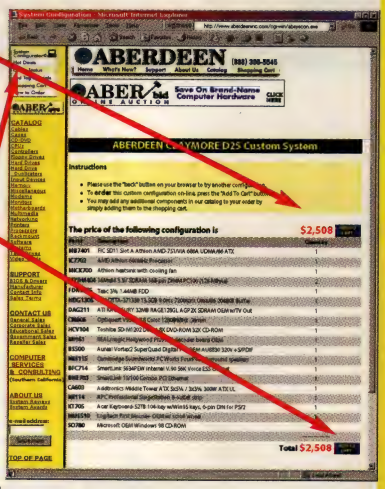

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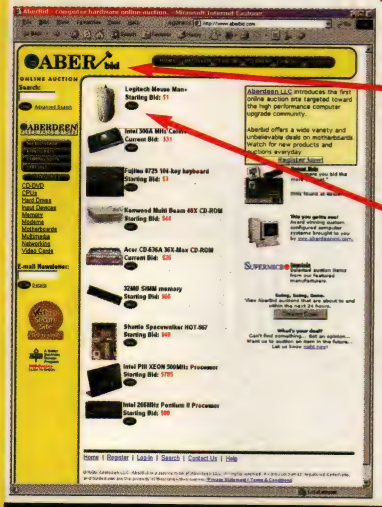

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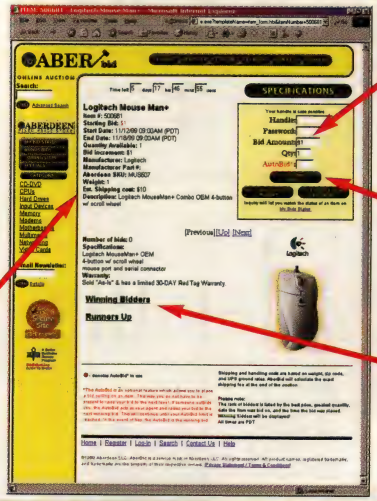

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AMD ATHLON™ PROCESSOR 900MHz HIGH-OCTANE GAMING

- ABIT KA7 Motherboard with VIA Apollo KX133 Chipset and 200MHz Frontside System Bus w/SOFT MENU III
- 200MHz Alpha™ EV6 Bus
- 128KB L1 cache, 512KB L2 cache
- Corsair 128MB SDRAM PC133 (768GB Max) Memory
- Guillemot Hercules 3D Prophet DDR-DVI 4X AGP with NVIDIA GeForce256 GPU and 32MB SDRAM
- Maxtor DiamondMax Plus 30GB 9.0ms 7200rpm Ultra ATA/66 Hard Drive with 2048KB Buffer
- Hyundai DeluxScan G910 19" (18") .26mm 1792@75Hz Monitor
- Hitachi GD-5000 8X DVD-ROM / 40X CD-ROM Drive
- Creative Sound Blaster Live! X-Gamer PCI Sound Card
- Creative PC Works FourPointSurround FPS2000 5-Piece Digital Shielded Speaker System
- LS-120 120MB / 1.44MB Floppy Disk Drive
- SmartLink 56K V.90 PCI Voice Faxmodem
- SmartLink 10/100 PCI Ethernet Network Card
- Addtronics 6890A 300W Middle Tower: 7 Drive Bays 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) 4 External 5.25" (1 Used)
- Logitech MouseMan USB Wheel Mouse
- Logitech Internet Keyboard
- MS Windows 98 Preinstalled, CD-ROM Included

AMD ATHLON PROCESSOR 900MHz $2549

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ABERDEEN INVERNESS D33
AMD K6®-2 PROCESSOR 550MHz FAMILY SYSTEM

- EPoX EP-MVP3G2 Motherboard with VIA Apollo MVP3 Chipset and 100MHz Frontside System Bus
- 1024KB Pipelined Burst L2 cache
- 128MB Kingmax TinyBGA PC100 SDRAM Memory (384KB Max)
- 3DFX Voodoo3 3000 AGP2X 16MB SDRAM w/TV Out
- IBM DPTA-372050 20.5GB 7200rpm 9.0ms UltraATA/66 Hard Drive with 2048KB Buffer
- Tatung C7BZR-25 17" (15.9") .25mm 1600@77Hz Monitor
- Hitachi GD-5000 8X DVD-ROM / 40X CD-ROM Drive
- Creative Sound Blaster Live! MP3+ PCI Sound Card with 320k encoder and up to 5X acceleration for the-generation of MP3 files
- Midiland MLi-480 3-Piece Speaker System with 2x6W Satellites and 1x18W Wooden Subwoofer
- Teac 3½" 1.44MB Floppy Disk Drive
- SmartLink 56K V.90 PCI Voice Faxmodem
- Super Mini Tower 250W ATX: 7 Drive Bays 2 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) 3 External 5.25" (1 Used)
- Logitech First Mouse+w/scroll wheel
- Logitech Internet Keyboard
- MS Windows 98 Preinstalled, CD-ROM Included

K6-2 PROCESSOR 550MHz $1279

K6-2 PROCESSOR 500MHz $1249

SERVERS

ABERDEEN SERVER S28U
INTEL® PENTIUM® III PROCESSOR 800MHz DUAL PROCESSING

- SuperMicro P6DBU Motherboard with Intel 440BX AGPset and 100MHz Frontside System Bus
- Dual Processor Capable
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- 256MB Corsair ECC CAS Latency 2 SDRAM PC100 Memory (1024MB Max)
- Quantum Atlas V QM336700XC-LW 36.7GB 7200rpm 6.3ms Ultra160 SCSI Hard Drive with 2048KB Buffer
- Adaptec AIC-7890 Ultra2 SCSI Controller
- Pine PT5965 AGP Graphic Accelerator with Cirrus Logic GD5465 and 4MB RAMBUS
- Toshiba XM-6702B 48X Max Variable CD-ROM
- 3Com Fast EtherLink XL TX 10/100 PCI Adapter
- Teac 3½" 1.44MB Floppy Disk Drive
- Server Tower 11 Drive Bays: 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) / 7 External 5.25" (1 Used) / 1 Internal 5.25" (0 Used)
- 300W ATX v2.01 UL Power Supply
- Acer 104-key Keyboard, Logitech Wheel Mouse
- MS Windows 2000 Server w/5 Client Access Licenses
- 7 Expansion Slots: 4 PCI Slots (2 Used) / 3 ISA Slots (0 Used) / 1 AGP (0 Used) Slot

PENTIUM III PROCESSOR DUAL 800MHz $3799

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PENTIUM III PROCESSOR 700MHz $3199

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ABERDEEN SERVER S60L
INTEL® PENTIUM® III PROCESSOR 700MHz STABILITY

- SuperMicro P6SBU Motherboard with Intel 440BX AGPset and 100MHz Frontside System Bus
- 256KB On-Die L2 Cache
- 128MB Corsair CAS Latency 2 ECC SDRAM PC100 Memmory (1024MB Max)
- Quantum Atlas IV QM318200KN-LW 18.2GB 7200rpm 6.9ms Ultra160/m SCSI Hard Drive with 2048KB Buffer
- Seagate TapeStor 8000 4/8GB TR-4/QIC-3095 SCSI-2 Tape Back-up
- Microlite Backup Edge for Linux
- Adaptec AIC-7890 Ultra2 SCSI Controller
- ATI 3D Charger AGP 4MB EDO OEM/Bulk, RAGE IIC 3D/2D MPEG-1
- Toshiba XM-6401B SCSI 40X Max Variable CD-ROM
- 3Com Fast EtherLink XL TX 10/100 PCI Adapter
- Teac 3½" 1.44MB Floppy Disk Drive
- Super Middle Tower: 8 Drive Bays: 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) / 4 External 5.25" (2 Used) / 1 Internal 5.25"
- 250W ATX v2.01 UL Power Supply
- 8/9 cm Thermal Control Back-up Fan
- Acer 104-key Keyboard, Microsoft IntelliMouse
- Red Hat Linux 6.2 Deluxe
- 7 Expansion Slots: 4 PCI Slots (2 Used) / 3 ISA Slots (0 Used) / 1 AGP (0 Used) Slot

PENTIUM III PROCESSOR 700MHz $2099

PENTIUM III PROCESSOR 650MHz $1999

PENTIUM III PROCESSOR 600E MHz $1949

WORKSTATIONS

ABERDEEN INVERNESS W36X
PENTIUM® III XEON™ PROCESSOR 800MHz 256-BIT GRAPHICS

- SuperMicro S2DM3 Motherboard with Intel 840 AGPset and 100MHz Frontside System Bus
- Dual Processor Capable
- 2048 / 1024KB ECC Integrated L2 cache
- 512MB Corsair CAS Latency 2 SDRAM PC100 Memory (4096MB Max)
- Seagate Cheetah 73 ST173404 73.4GB 5.6ms 10000pm Ultra160 SCSI LVD 4096KB Buffer
- Adaptec AIC-7892 Ultra160 SCSI LVD Controller
- 3Dlabs Oxygen GVX210 - AGP Graphic Accelerator with Dual 3Dlabs Glint R3 rasterizers and Gamma G2 geometry and 256-bit 64MB SGRAM frame buffer memory and ability to manipulate up to 256MB of textures in a single scene
- ViewSonic P817 Xtreme Monitor™ 21" (20") .26mm dp 2048x1536@85Hz Monitor with USB
- Toshiba XM-6702B 48X Max Variable CD-ROM
- Integrated Intel 10/100 Ethernet Adapter
- Server Tower 11 Drive Bays: 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) / 7 External 5.25" (1 Used) / 1 Internal 5.25" (0 Used)
- 300W ATX v2.01 UL Power Supply
- Acer Keyboard (mechanical keyswitch), Two USB Ports, MS IntelliMouse®
- MS Windows 2000 Professional
- 7 Expansion Slots: 2 64-bit PCI Slots / 4 32-bit PCI Slots / 1 AGP Pro (Used) Slot

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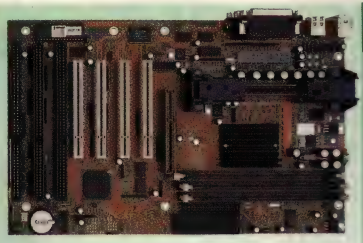
Intel® 440BX / Slot 1

PINE BA1

- Intel 440BX chip set / Slot 1 / 768MB maximum memory
- Jumperless CPU setting
- 3 DIMM memory slots
- 3 ISA / 4 PCI / 1 AGP
- ATX form factor, Award BIOS

$87.99 MB6610



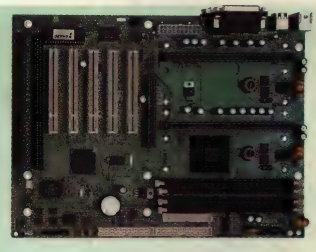
PINE Model	Aberdeen PN	Mobo only	Intel Pentium III	550 MHz	650 MHz	700 MHz	750 MHz
BA1	*MB6610*	$87.99		$282.99	$317.99	$377.99	$487.99

Intel 440BX / Dual Slot 1

PINE BA1-D

- Intel 440BX chip set / 768MB maximum memory
- Dual Slot 1 supports single or dual processors
- 3 DIMM memory slots
- 3 ISA / 4 PCI / 1 AGP
- ATX form factor, Award BIOS

$174.99 MB6611



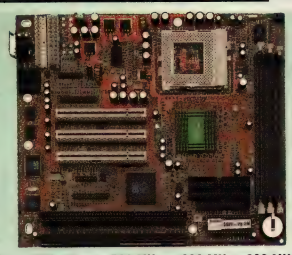
PINE Model	Aberdeen PN	Mobo only	Intel Pentium III	550 MHz	Dual 550	700 MHz	Dual 700
BA1-D	*MB6611*	$174.99		$369.99	$564.99	$464.99	$754.99

SiS 620 / Socket 370

PINE SB3-AV and SM3-AV

- SiS 620 chip set / Socket 370 / 768 MB max memory
- Ultra DMA 33/66, Jumperless CPU setting
- 2 ISA / 3 PCI (SB3) or 1 ISA / 3 PCI (SM3)
- 3 DIMM memory slots
- Crystal sound, 8MB AGP video on-board
- Baby AT (SB3) or MicroATX (SM3)

$79.99 MB6613 (SB3)



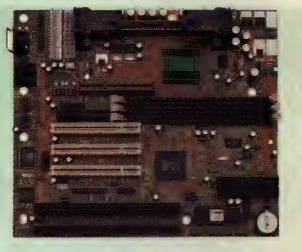
PINE Model	Aberdeen PN	Mobo only	Intel Celeron	500 MHz	533 MHz	566 MHz	600 MHz	633 MHz
SB3-AV	*MB6613*	$79.99		$164.99	$174.99	$189.99	$214.99	$249.99
SM3-AV	*MB6614*	$79.99		$164.99	$174.99	$189.99	$214.99	$249.99

SiS 620 / Slot 1

PINE SB1-A

- SiS 5600 chip set / Slot 1 / 768 MB max memory
- 3 DIMM memory slots
- 2 ISA / 3 PCI / 1 AGP
- Crystal sound on-board
- Baby AT form factor, Award BIOS

$64.99 MB6612



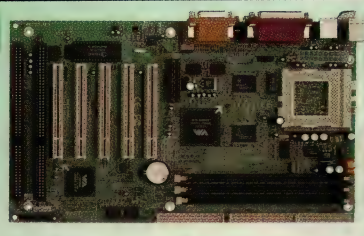
PINE Model	Aberdeen PN	Mobo only	Intel Pentium III	550 MHz	650 MHz	700 MHz	750 MHz
SB1-A	*MB6612*	$64.99		$259.99	$294.99	$354.99	$464.99

VIA MVP4 / Super7

PINE VA7-AV

- VIA Apollo Super MVP4 / Socket Super7 / 512 MB max
- Ultra DMA 33/66
- 2 ISA / 5 PCI / 1 AMR
- 3 DIMM memory slots
- 3D sound, 64-bit AGP video on-board
- ATX form factor, Award BIOS

$91.99 MB5300



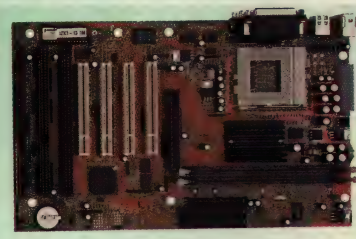
PINE Model	Aberdeen PN	Mobo only	AMD K6-2	500 MHz	550 MHz
VA7-AV	*MB5300*	$91.99		$150.99	$176.99

Intel® 440ZX / Socket 370

PINE ZA3

- Intel 440ZX chip set / Slot 1 / 512 MB maximum memory
- Jumperless CPU setting
- 2 DIMM memory slots
- 3 ISA / 4 PCI / 1 AGP
- ATX form factor, Award BIOS

$79.99 MB6615



PINE Model	Aberdeen PN	Mobo only	Intel Celeron	500 MHz	533 MHz	566 MHz	600 MHz	633 MHz
SM3-AV	*MB6615*	$79.99		$164.99	$174.99	$189.99	$214.99	$249.99

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TNT M64 32MB

PINE PT5988-32

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- DVD-Video acceleration

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- Crystal 4280 chipset
- 128 voices software wavetable
- 3D spatialization
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- AC97 CODEC / DS3D

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- 32MB built-in flash memory
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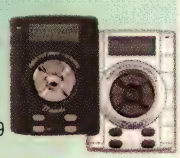
- 12 character x 2 lines LCD display
- Equalizer (flat, pop, classic, jazz, ex-bass)
- Stereo headphone
- 32MB flash memory card expandable
- 2 AAA batteries
- Silver or black
- D'music 640F features 64MB memory and auto digital tuning FM radio—$229.99



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PINE 200C CD

- Play audio CDs and MP3 CDs
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- Play up to 120 MP3 tunes on one CD
- Remote control (optional)
- Equalizer (flat, pop, classic, jazz, ex-bass)
- Stereo headphone and line output
- Built-in charger
- 4 AA batteries (rechargable or alkaline)
- 8 hours play time with alkaline batteries

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- 1280 x 1024 @ 60Hz
- 30~70 kHz horizontal scanning frequency
- On screen display
- TCO 92 low radiation

$149.99
CRI910

DeluxScan V770

- 17" (15.7") .27mm dot pitch FST
- 1280 x 1024 @ 60Hz
- 30~70 kHz horizontal scanning frequency
- On screen display
- TCO 92 low radiation

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DeluxScan V790

- 17" (15.7") .26mm dot pitch FST
- 1600 x 1280 @ 75Hz
- 30~95 kHz horizontal scanning frequency
- On screen display
- TCO 92 low radiation

$224.99
CRI912

DeluxScan F790

- 17" (15.7") .24mm stripe pitch **Flat**
- 1600 x 1280 @ 75Hz
- 30~95 kHz horizontal scanning frequency
- On screen display
- TCO 92 low radiation

$279.99
CRI913

DeluxScan G910

- 19" (18") .26mm dot pitch FST
- 1792 x 1344 @ 75Hz
- 30~107 kHz horizontal scanning frequency
- On screen display
- TCO 92 low radiation

$309.99
CRI914

DeluxScan P990

- 19" (18") .25mm dot pitch **short-neck** FST
- 1600 x 1280 @ 75Hz
- 30~95 kHz horizontal scanning frequency
- On screen display
- TCO 92 low radiation

$349.99
CRI915

DeluxScan P210

- 21" (19.7") .25mm dot pitch FST
- 1792 x 1344 @ 75Hz
- 30~107 kHz horizontal scanning frequency
- On screen display
- TCO 92 low radiation

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- 15" TFT active matrix LCD
- 1024 x 768 @ 85Hz
- 31~69 kHz horizontal scanning frequency
- LM1510A also features 2w/ch speakers and 5 USB ports $999.99

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LCD901

DeluxScan LM1810A

- 18" TFT active matrix LCD
- 1280 x 1024 @ 75Hz
- 31.5~79.9 kHz horizontal scanning frequency
- 2w/ch speakers
- 1 up & 4 down USB

$2599.99
LCD903

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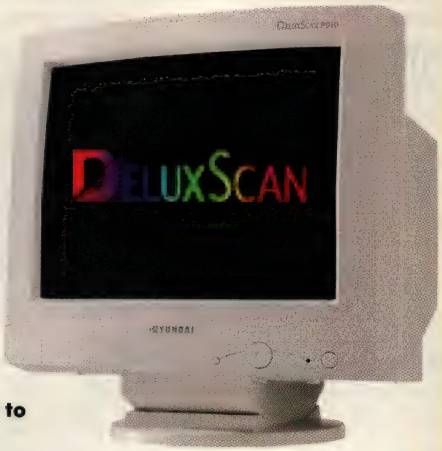
Risk Free Performance

- **30-Day Money-Back Guarantee**
- **90-Day DOA Replacement**
- **3-Year Warranty**



As an authorized distributor, Aberdeen is proud to introduce the Hyundai DeluxScan line of monitors. For over a decade, Hyundai has been bringing clear images, rich colors and sharp text to

- Real flicker-free with high refresh rates.
- Low emissions and ecology. All monitors satisfy TCO 92 requirements. TCO 99 available as an option.
- 30-day money back guarantee without any restocking fees. Shipping charges are not refundable. Contact Aberdeen for details.
- 3-year limited warranty directly by HEA.
- 90-day DOA replacement directly by Hyundai Electronics of America. HEA pays for shipping charges both ways.
- Short-next technology DeluxScan monitors provide 17% reduction in depth and 10% overall increase in brightness and contrast.
- Energy conservation circuitry design for low energy consumption meets EPA Energy Star and VESA DPMS guidelines.
- Image Color Matching profile for display-to-printer WYSIWYG.
- Ergonomic on-screen adjustment provides RGB color adjustment, advanced geometric distortion compensation and detailed monitor information.
- Worldwide safety and regulations compliance with UL, CSA, TUV-GS, VDE, CE, DHHS, FCC, VCCI, TCO, SEMKO, others.
- ISO 9001 certified.

SOHO Series

Designed specifically with the SOHO user in mind, the DeluxScan SOHO Series sets the industry standard for screen performance, allowing users to take full advantage of today's sophisticated text and graphic applications. All monitors support 90~264 VAC and are TCO 92 low radiation compliant.

DeluxScan Model	Aberdeen Part Number	CRT Size / Viewable	Dot Pitch	Maximum Resolution @ Refresh Rate	Screen Type	Price
V570	CRI910	15" / 13.7"	.28 mm	1280 x 1024 @ 60 Hz	FST	$149.99
V770	CRI911	17" / 15.7"	.27 mm	1280 x 1024 @ 60 Hz	FST	$197.99

Business Series

The Business Series is designed for the mainstream computer market, where high performance and technology come first. With dazzling and bright images, the Business Series is the ideal choice for a variety of business and corporate applications--from desktop computing and graphics to desktop publishing. All monitors support 90~264 VAC and are TCO 92 low radiation compliant.

DeluxScan Model	Aberdeen Part Number	CRT Size / Viewable	Dot Pitch	Maximum Resolution @ Refresh Rate	Screen Type	Price
V790	CRI912	17" / 15.7"	.26 mm	1600 x 1280 @ 75 Hz	FST	$224.99

Professional Series

Designed for CAD/CAM/CAE, DTP professionals, and high-end graphic users, the DeluxScan Professional Series provides advanced features like ultrahigh 1600 x 1200 resolution, flicker-free, high-contrast image display, one-touch and one-button ADOC (advanced digital on-screen controls) and RGB color matching controls. All monitors support 90~264 VAC and are TCO 92 low radiation compliant.

DeluxScan Model	Aberdeen Part Number	CRT Size / Viewable	Dot Pitch / Aperture Grill	Maximum Resolution @ Refresh Rate	Screen Type	Price
F790	CRI913	17" / 15.7"	.24 mm AG	1600 x 1280 @ 75 Hz	Flat	$279.99
G910	CRI914	19" / 18"	.26 mm	1792 x 1344 @75 Hz	FST	$309.99
P990	CRI915	19" / 18"	.25 mm	1600 x 1280 @ 75 Hz	Short-neck FST	$349.99
P210	CRI916	21" / 19.7"	.25 mm	1792 x 1344 @75 Hz	FST	$629.99

LCD Series

With a mere six- or seven-inch deep footprint and weight of around ten pounds, Hyundai DeluxScan LCD monitors are well-suited and designed for applications in the financial, banking, medical, manufacturing, military, and transportation industries. All monitors support 100~240 VAC and analog video.

DeluxScan Model	Aberdeen Part Number	LCD Size	Audio	USB	Maximum Resolution @ Refresh Rate	Screen Type	Price
LM1500A	LCD901	15"			1024 x 768 @ 85 Hz	TFT Active Matrix	$929.99
LM1510A	LCD902	15"	Yes	Yes	1024 x 768 @ 85 Hz	TFT Active Matrix	$999.99
LM1810A	LCD903	18"	Yes	Yes	1280 x 1024 @ 75 Hz	TFT Active Matrix	$2,599.99

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Asus V6600 **GeForce 256 Pure Deluxe**....$272.99
Asus V6800 **GeForce 256 DDR Pure**.....$297.99
Asus V6800 **GeForce 256 Pure Deluxe**....$349.99
Creative 3D Annihilator Pro **GeForce**.....$319.99
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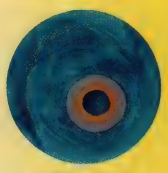

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QUANTEX SM733t

Cutting-Edge Performance Desktop
Intel® Pentium® III Processor 733MHz
128MB SDRAM Memory, PC133 Ready
30GB 7200rpm Ultra ATA-66 Hard Drive
17" Monitor w/Diamondtron NF CRT (16" vis, .25ag)
nVidia Riva TNT2 AGP Graphics w/32MB, TV-Out
12x Max Variable Speed DVD-ROM Drive
Altec Lansing ACS-21W Speakers
Sound Blaster AudioPCI 128 Sound Card
Corel WordPerfect Office 2000
Lexmark Z11 Color Printer

$1599
Business lease:$58/Mo., 36 Mos.
QUOTE NUMBER: csg06s13

VALUE DESKTOPS

Standard Features: Floppy Drive, 2 USB Ports, 56K V.90 Internet Fax/Modem, ATX Mid-Tower Case, Internet-Ready Keyboard, MS Mouse, Microsoft Windows 98 Second Edition, 3-Yr. Limited Warranty, 24/7 Toll-Free Technical Support

QUANTEX M800s

Affordable Desktop Solution
Intel® Pentium® III Processor 800MHz
128MB High-Performance SDRAM Memory
30GB Ultra ATA Hard Drive
19" Monitor (18" vis, .26dp, 1600x1200 max res)
Intel 2D/3D Graphics Accelerator
3rd Generation DVD-ROM Drive
Dynamic Wavetable Stereo Sound
3-Piece Stereo Speakers w/subwoofer
Corel WordPerfect Office 2000

$1499
Business lease:$54/Mo., 36 Mos.
QUOTE NUMBER: csg06m40

QUANTEX M733t

Affordable Desktop Solution
Intel® Pentium® III Processor 733MHz
128MB High-Performance SDRAM Memory
15GB Ultra ATA Hard Drive
17" Monitor w/on-screen display (15.8" vis)
Intel 2D/3D Graphics Accelerator
Internal Zip Drive
3rd Generation DVD-ROM Drive
Dynamic Wavetable Stereo Sound, Speakers w/sub.
Corel WordPerfect Office 2000

$1299
Business lease:$47/Mo., 36 Mos.
QUOTE NUMBER: csg06m39

QUANTEX M667v

Affordable Desktop Solution
Intel® Pentium® III Processor 667MHz
64MB High-Performance SDRAM Memory
15GB Ultra ATA Hard Drive
17" Monitor w/on-screen display (15.8" vis)
Intel 2D/3D Graphics Accelerator
3rd Generation DVD-ROM Drive
Dynamic Wavetable Stereo Sound
3-Piece Stereo Speakers w/subwoofer
Corel WordPerfect Office 2000

$1099
Business lease:$40/Mo., 36 Mos.
QUOTE NUMBER: csg06m21

QUANTEX M566c

Affordable Desktop Solution
Intel® Celeron™ Processor 566MHz
64MB SDRAM Memory
10GB Ultra ATA Hard Drive
17" Monitor w/on-screen display (15.8" vis)
Intel 2D/3D Graphics Accelerator
48x Max Variable Speed CD-ROM Drive
Aureal A3D Sound Technology, Speakers
Corel WordPerfect Office 2000
Upgrade to 128MB SDRAM for $99

$899
QUOTE NUMBER: csg06m04

PERFORMANCE NOTEBOOKS

Standard Features: Floppy Drive, Integrated Stereo Sound & Speakers, Lithium Ion Battery, Personal Touchpad, USB, Fast IR Ports, 56K V.90 Fax/Modem, 24/7 Toll-Free Technical Support, 3-Yr. Limited Warranty on CPU & Memory, 1-Yr. Parts & Labor Limited Warranty on all other components

QUANTEX W-1500

Desktop Replacement Notebook
New Pentium® III Processor 700MHz
featuring Intel® SpeedStep™ Technology
15" XGA TFT Active Matrix Display
128MB SDRAM Memory
New 18GB Ultra ATA Hard Drive
Modular 6x Max Variable Speed DVD-ROM Drive
ATI Mobility P Graphics w/8MB, TV-Out
Quantex Deluxe Carrying Case Included
MS Windows 2000 Professional
Microsoft Office 2000 SBE

$2999
Business lease:$109/Mo., 36 Mos.
QUOTE NUMBER: csg06w42

QUANTEX W-1400

Desktop Replacement Notebook
New Pentium® III Processor 650MHz
featuring Intel® SpeedStep™ Technology
14.1" XGA TFT Active Matrix Display
64MB SDRAM Memory
12GB Ultra ATA Hard Drive
Modular 6x Max Variable Speed DVD-ROM Drive
ATI Mobility P Graphics w/8MB, TV-Out
Quantex Carrying Case
MS Windows 2000 Professional, Corel Office 2000
Upgrade to Microsoft Office 2000 SBE for $129

$2399
Business lease:$87/Mo., 36 Mos.
QUOTE NUMBER: csg06w16

QUANTEX T-1400

Affordable Road Warrior Power
Intel® Pentium® III Processor 500MHz
14.1" XGA TFT Active Matrix Display
Slim Design (only 1.43" thick)
96MB SDRAM Memory
12GB Ultra ATA Hard Drive
Modular DVD-ROM Drive
ATI Mobility M Graphics w/8MB
Quantex Carrying Case
Microsoft Windows 98 Second Edition; Corel Office 2000
Upgrade to Microsoft Office 2000 SBE for $129

$1999
Business lease:$73/Mo., 36 Mos.
QUOTE NUMBER: csg06t05

QUANTEX T-1400

Affordable Road Warrior Power
Intel® Celeron™ Processor 450MHz
14.1" XGA TFT Active Matrix Display
Slim Design (only 1.43" thick)
64MB SDRAM Memory
6GB Ultra ATA Hard Drive
Modular 24x Max Variable Speed CD-ROM Drive
ATI Mobility M Graphics w/8MB
Quantex Carrying Case
Microsoft Windows 98 Second Edition; Corel Office 2000
Upgrade to Microsoft Office 2000 SBE for $129

$1799
Business lease:$65/Mo., 36 Mos.
QUOTE NUMBER: csg06t04

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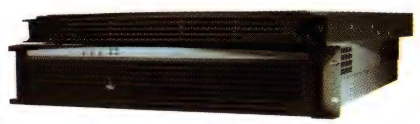

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BUSINESS DESKTOPS

Standard Features: Floppy Drive, 2 USB Ports, 48x Max Variable Speed CD-ROM Drive, ATX Mid-Tower Case: Chassis-lock, Removable HD Chassis and Power Supply, 104-Key Keyboard, Microsoft Mouse, WfM Compliant, DMI2.0, ACPI, Cable Modem Ready, 3-Yr. Limited Warranty, 24/7 Toll-Free Technical Support

QUANTEX SB733s

Sensible Business Desktop
- **Intel® Pentium® III Processor 733MHz**
- **128MB RDRAM Memory**
- **20GB 7200rpm Ultra ATA Hard Drive**
- **19" Monitor w/ Diamondtron NF CRT (18" vis, .25ag)**
- nVidia TNT2 Vanta AGP Graphics, 16MB
- Advanced Creative Labs Sound
- **Intel® 10/100 PCI Fast Ethernet Adapter w/WOL**
- **Microsoft Windows 2000 Professional**, MS Office 2000 SBE

$1999

Business lease: $73/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06b46

QUANTEX SB700t

Sensible Business Desktop
- **Intel® Pentium® III Processor 700MHz**
- **128MB High-Performance SDRAM Memory**
- **15GB 7200rpm Ultra ATA Hard Drive**
- 17" Digital Monitor w/ On-Screen Display (15.8" vis)
- nVidia TNT2 Vanta AGP Graphics, 16MB
- Advanced Creative Labs Sound
- **Intel® 10/100 PCI Fast Ethernet Adapter w/WOL**
- **Microsoft Windows 2000 Professional**, MS Office 2000 SBE

$1399

Business lease: $51/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06b34

QUANTEX SB650v

Sensible Business Desktop
- **Intel® Pentium® III Processor 650MHz**
- 64MB High-Performance SDRAM Memory
- 15GB Ultra ATA Hard Drive
- 17" Digital Monitor w/ On-Screen Display (15.8" vis)
- Intel 2D/3D Graphics Accelerator
- Dynamic Wavetable Stereo Sound
- **Intel® 10/100 PCI Fast Ethernet Adapter w/WOL**
- **Microsoft Windows 2000 Professional**

$1099

Business lease: $40/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06b44

QUANTEX SB600c

Sensible Business Desktop
- **Intel® Celeron™ Processor 500-600MHz**
- 32-64MB SDRAM Memory
- 10GB Ultra ATA Hard Drive
- 15" Digital Monitor w/ On-Screen Display
- Intel 2D/3D Graphics Accelerator
- Dynamic Wavetable Stereo Sound
- **Intel® 10/100 PCI Fast Ethernet Adapter w/WOL**
- MS Windows 98 Second Edition

Starting at $799

Q-QUOTE NUMBER: csg06b02

PERFORMANCE WORKSTATIONS

Standard Features: Floppy Drive, 48x Max Variable Speed CD-ROM Drive, Altec Lansing ACS-21W Speakers, MS Natural Keyboard Elite, MS IntelliMouse, WfM Compliant, DMI2.0, ACPI, Cable Modem Ready, 3-Yr. Limited Warranty, 24/7 Toll-Free Technical Support

QUANTEX ZX866xi

Leading-Edge Technology
- ***Dual* Intel® Pentium® III Processors 866MHz**
- ***New* 256MB RDRAM Memory (2GB max.)**
- **18GB Ultra160/LVD SCSI Hard Drive**
- Adaptec Ultra160/LVD SCSI Controller
- **Intel® 10/100 PCI Fast Ethernet Controller w/WOL**
- **21" Monitor w/ On-Screen Display (20" vis, .26dp)**
- **3DLabs Oxygen GVX210, 64MB 3D AGP Graphics Card w/Dual-Monitor Support**
- Advanced Creative Labs Sound
- **Microsoft Windows 2000 Professional**

$5999

Business lease: $207/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06z13

QUANTEX ZX800x

Leading-Edge Technology
- **Intel® Pentium® III Processor 800MHz**
- Dual-Processor Upgradeable
- ***New* 128MB RDRAM Memory (2GB max.)**
- **18GB Ultra160/LVD SCSI Hard Drive**
- Adaptec Ultra160/LVD SCSI Controller
- **Intel® 10/100 PCI Fast Ethernet Controller w/WOL**
- **19" Monitor w/ Diamondtron NF CRT (18" vis, .25ag)**
- **3DLabs Oxygen GVX1 3D AGP Graphics, 32MB**
- Advanced Creative Labs Sound
- **Microsoft Windows 2000 Professional**

$3499

Business lease: $121/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06z12

QUANTEX ZX800s

Leading-Edge Technology
- ***New* Intel® Pentium® III Processor 800MHz**
- Dual-Processor Upgradeable
- 128MB ECC SDRAM (1GB Max)
- **9GB Ultra2/LVD SCSI Hard Drive**
- Adaptec Ultra2/LVD SCSI Controller
- **Intel® 10/100 PCI Fast Ethernet Controller w/WOL**
- 19" Monitor w/ Diamondtron NF CRT (18" vis, .25ag)
- **3DLabs Oxygen VX1 3D AGP Graphics, 32MB**
- Advanced Creative Labs Sound
- **Microsoft Windows 2000 Professional**

$2499

Business lease: $91/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06z30

QUANTEX ZX750t

Leading-Edge Technology
- ***New* Intel® Pentium® III Processor 750MHz**
- Dual-Processor Upgradeable
- 128MB ECC SDRAM (1GB Max)
- **30GB 7200rpm Ultra ATA Hard Drive**
- **Intel® 10/100 PCI Fast Ethernet Controller w/WOL**
- 19" Monitor w/ Diamondtron NF CRT (18" vis, .25ag)
- **3DLabs Oxygen VX1 3D AGP Graphics, 32MB**
- Advanced Creative Labs Sound
- **Microsoft Windows 2000 Professional**
- *Add CD-ReWritable for $199*

$1999

Business lease: $73/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06z03

SERVERS

Standard Features: Floppy Drive, 48x Max Variable Speed CD-ROM Drive, Intel Server Management Console, Emergency Management Port, 104-Key Keyboard, Microsoft Mouse, 3-Yr. Limited Warranty, 24/7 Toll-Free Dedicated Server Hardware Technical Support

QUANTEX QX6200

Departmental Server, Rack-Mountable
- **Intel® Pentium® III Xeon™ Processor 500MHz**
- Dual-Processor Upgradeable
- Intel C440GX+ Server Board
- **256MB ECC SDRAM (2GB Max)**
- **9GB Ultra2/LVD SCSI Hot Swap HD (216GB Max)**
- Dual Channel Ultra2/LVD SCSI Controller
- Dual Peer PCI Buses; 6 PCI, 1 ISA Slot
- 2+1 400W Redundant Power Supplies
- 6 Hot-Swap Drive Bays, 6 Fans
- Intel® EtherExpress™ Pro 100 Ethernet Adapter
- Chassis-Intrusion Switch, Drive Bay Lock
- *Upgrade to Rack-mount Kit for $99*

$3999

Business lease: $138/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06q24

QUANTEX QX5000ws

Reliable Web Server
- ***New* Intel® Pentium® III Processor 750MHz**
- Dual-Processor Upgradeable
- Intel L440GX+ Server Board
- **128MB ECC SDRAM (2GB Max)**
- **9GB Ultra2/LVD SCSI Hot Swap HD (180GB Max)**
- Dual Channel Ultra2/LVD SCSI Controller
- Dual Peer PCI Buses; 6 PCI, 1 ISA Slot
- 5 Hot-Swap Drive Bays; 4 Fans
- **Microsoft Windows 2000 Server**
- **Microsoft Front Page Web Creation & Management Tool**
- **Microsoft Internet Information Server 5.0**
- Intel® EtherExpress™ Pro 100 Ethernet Adapter

$2799

Business lease: $102/Mo., 36 Mos.
Q-QUOTE NUMBER: csg06q00

QUANTEX QX5000

Workgroup Server
- ***New* Intel® Pentium® III Processor 700MHz**
- Dual-Processor Upgradeable
- Intel L440GX+ Server Board
- **128MB ECC SDRAM (2GB Max)**
- **9GB Ultra2/LVD SCSI Hot Swap HD (180GB Max)**
- Dual Channel Ultra2/LVD SCSI Controller
- Dual Peer PCI Buses; 6 PCI, 1 ISA Slot
- 5 Hot-Swap Drive Bays; 4 Fans
- Intel® EtherExpress™ Pro 100 Ethernet Adapter
- Chassis-Intrusion Switch; Drive Bay Lock
- *Add AMI MegaRAID 466WS for $399*
- *Add NetWare® 5.1 Server plus 5 connections for $949*

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Business lease: $73/Mo., 36 Mos
Q-QUOTE NUMBER: csg06q40

QUANTEX QX3000

Branch Office Server
- **Intel® Pentium® III Processor 600MHz**
- Intel 440BX Chipset
- Intel T440BX Server Board
- 128MB ECC SDRAM
- 9GB Ultra-Wide SCSI Hard Drive
- Integrated Ultra-Wide SCSI Controller
- 3 PCI Slots, 1 ISA Slot, 1 Shared PCI/ISA Slot
- Mid Tower Server Case; 3 Internal 3.5" Bays, 3 External 5.25" Bays
- Intel® EtherExpress™ Pro 100 Ethernet Adapter
- *Add APC SmartUPS 700VA for $349*
- *Add Novell NetWare® Small Business Suite 5 for $899*

$1399

Business lease: $51/Mo., 36 Mos.
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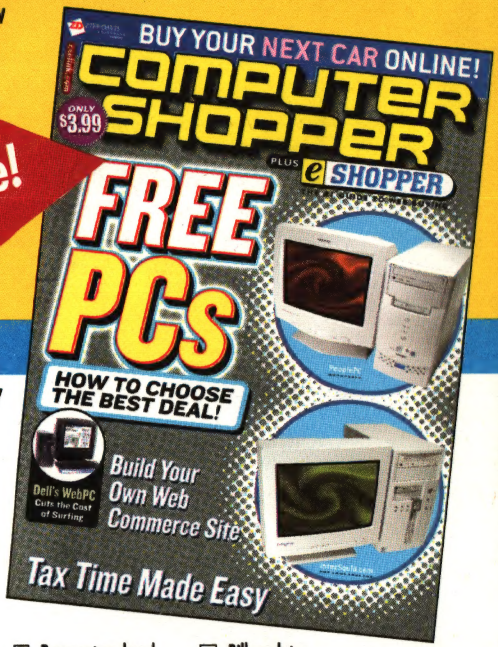
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